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Anchorage, Alaska 99513

Mineral Investigations in the Stikine Area, Southeast Alaska, 1997

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Cover Photo

Northern Silver prospect, north of Nelson Glacier, Southeast Alaska, showing contact with Coast Range megalineament in background. (Photo by Mitchell E. McDonald, Jr.)

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ABBREVIATIONS

ADGGS	Alaska Division of Geological and Geophysical Surveys
ANILCA	Alaska National Interest Lands Conservation Act
BLM	U.S. Bureau of Land Management
USDA	U.S. Department of Agriculture
VMS	volcanogenic massive sulfide

UNIT OF MEASURE ABBREVIATIONS USED IN THIS REPORT

g/mt	gram per metric ton
ppb	parts per billion
ppm	parts per million
st	short ton
tr oz	troy ounce

CONVERSIONS

From	Multiply by	To
g/mt (= ppm)	0.02917	tr oz/st
tr oz/st	34.286	ppm
ppm	1,000	ppb
ppb	0.001	ppm

Mineral Investigations in the Stikine Area, Southeast Alaska, 1997

By Mitchell E. McDonald, Jr.[1], Jan C. Still[2], Peter E. Bittenbender[1] and James R. Coldwell[2]

ABSTRACT

The Bureau of Land Management (BLM) began a three-year mineral assessment of the Stikine area of Southeast Alaska in 1997. The study area includes several known areas of mineralization including the Cornwallis Peninsula, Duncan Canal, Woewodski Island, Zarembo Island, and Groundhog Basin. Duncan Canal, Woewodski Island, and Groundhog Basin were the focus of the 1997 field effort. Bureau geologists and engineers visited a total of 48 mines and prospects and took 311 rock chip and stream sediment samples. This report provides results from samples taken in the 1996-97 field seasons.

The Duncan Canal area, Woewodski Island, and Zarembo Island contain several occurrences of volcanogenic massive sulfide (VMS) mineralization hosted in Triassic rocks of the Alexander Terrane. The Alexander Terrane extends along the length of Southeast Alaska, and includes the Triassic age high-grade Greens Creek silver-lead-zinc-gold VMS deposit on northern Admiralty Island. Site specific examinations during this study coupled with newly created geophysical data and 1:63,360 scale geologic maps will help to more completely describe this VMS-style mineralization.

The Groundhog Basin area contains a variety of deposit types, most importantly replacement-style mineralization and polymetallic veins. Several known occurrences were visited that had previously not been reported. Samples taken in 1997 indicate sufficient silver, lead and zinc mineralization to conduct further work in this area.

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Introduction

During 1997, the Bureau of Land Management (BLM) began a three-year field investigation of the Stikine study area (Fig.1). This study was undertaken at the request of the U. S. Department of Agriculture (USDA), Forest Service for the purpose of conducting a mineral assessment of the Stikine area and is authorized under Section 1010 of the Alaska National Interest Lands Conservation Act (ANILCA). The objectives are to determine the type, amount and distribution of mineral deposits and to determine resource estimates when possible. These objectives will be met by locating, sampling, surveying, and mapping historic mines, prospects, and occurrences, as well as newly discovered mineralization and conducting reconnaissance investigations of prospective mineralized areas.

In 1997, the BLM participated in a joint project with the Alaska Division of Geological and Geophysical Surveys (ADGGS) and the City of Wrangell, to conduct an airborne geophysical survey of several areas within the Stikine study area (Fig.2). The targets of the geophysical survey were massive sulfide deposits in Duncan Canal, Woewodski Island, Zarembo Island, and Etolin Island; replacement deposits in Groundhog Basin; and rare earth deposits in Salmon Bay. These results were released in 1997 by the ADGGS as a separate report (ADGGS and others, 1997) and are therefore not discussed in this report.

The study area includes known areas of mineralization including the Cornwallis Peninsula, Duncan Canal, Woewodski Island, Zarembo Island, and Groundhog Basin. Duncan Canal, Woewodski Island, and Groundhog Basin were the focus of the 1997 field effort. Bureau personnel visited a total of 48 mines and prospects and collected 311 rock chip and stream sediment samples. This report provides the sample results from the 1997 field work and reconnaissance samples taken in 1996 prior to the start of the Stikine mineral investigation.

Location and Access

The study area includes Kuiu, Coronation, Kupreanof, Woewodski, Zarembo, Mitkof, Etolin, and Wrangell Islands, as well as smaller islands west of the mainland (Fig. 1). The mainland extending north from the Bradfield River to just south of Windham Bay and Endicott Arm is also included within the study area. Petersburg, Wrangell, and Kake are the largest communities in the study area.

Wrangell, located on the northern tip of Wrangell Island, is accessible by the Alaska Marine Highway ferry and commercial barging companies with regular service. A seaplane base and State-owned paved airport allowing for scheduled jet and commuter services is available along with fixed wing, float plane, and helicopter charter services. Marine facilities include a deep draft dock, an Alaska Marine Highway ferry terminal, and two small boat harbors. Wrangell provides transportation and staging services for mining operations on the Iskut River in Canada. Wrangell's road network includes about 141 miles of state and Forest Service roads.

Petersburg, located on the northeast tip of Mitkof Island, is accessible by the Alaska Marine Highway ferry and commercial barging companies with regular service. A seaplane base and State-owned paved airport allowing for scheduled jet and commuter services is available along with fixed wing, float plane, and helicopter charter services. Other facilities include three docks, three boat harbors, two petroleum wharves, an Alaska Marine Highway terminal, and two barge terminals. Petersburg's road network includes about 214 miles of city, state and Forest Service roads.

Kake, located on northwest Kupreanof Island, is accessible by the Alaska Marine Highway ferry and commercial barging companies with regular service. A seaplane base and State-owned lighted and paved runway allows for scheduled commuter flights to Petersburg, Juneau, Sitka, and Wrangell. Other facilities include a small boat harbor, a deep water dock, and an Alaska Marine Highway ferry terminal. There are about 120 miles of logging roads in the Kake area, but no connections to other communities on Kupreanof Island.

Bureau Work

Bureau personnel made four field study trips into the Stikine study area in 1997. Twelve days were spent aboard a motor vessel visiting selected prospects and investigating beach exposures in the Duncan Canal area, Woewodski Island, and Zarembo Island. Two trips, totaling twenty days, were based out of Wrangell with contracted helicopter support. Selected prospects were visited in the Groundhog Basin and Duncan Canal areas during this time. Work was based out of Kake for five days to visit selected prospects in the Cornwallis Peninsula and Duncan Canal areas utilizing contracted helicopter support. A total of 48 mines and prospects were visited, and 311 samples were collected.

Significant Results

In the Duncan Canal area (Fig.3), significant results were obtained from volcanogenic massive sulfide (VMS) and replacement type deposits at the Northern Copper prospect, Taylor Creek, the Castle Island Barite Mine, the Castle River area, the Salt Chuck prospect, and magmatic segregation type deposits at the Portage Creek prospect. Samples at the Northern Copper prospect (map number 8) yielded copper values of 1.7 % in a select sample (sample 105) and zinc values of 1.2 % across 3 feet (sample 108). Samples at Taylor Creek (map number 20-21) yielded gold values of 0.903 parts per million (ppm) and 9.7 % lead in a grab sample (sample 226), and zinc values of 6.9 % across 0.7 feet (sample 53). A select sample (sample 109) at the Salt Chuck prospect (map number 16) yielded copper values of 7.1 %. A grab sample (sample 46) at the Castle Island Barite Mine (map number 26) yielded 0.347 ppm gold, 0.8 % lead, and 2.3 % zinc. Samples at beach exposures north of the Castle River (map number 24) yielded 0.5 % lead in a grab sample (sample 2622) and 3.0 % zinc across 0.5 feet (sample 47). Samples 139, 2368, and 2369 at the Portage Creek prospect (map number 13) yielded approximately 0.5 % copper across 15,12, and 15 feet respectively.

Base map adapted from USGS 1:250,000 scale Bradfield Canal, Craig, Ketchikan, Port Alexander, Petersburg, Sitka, and Sumdum quadrangles.

Figure 1.-Location map of the Stikine study area

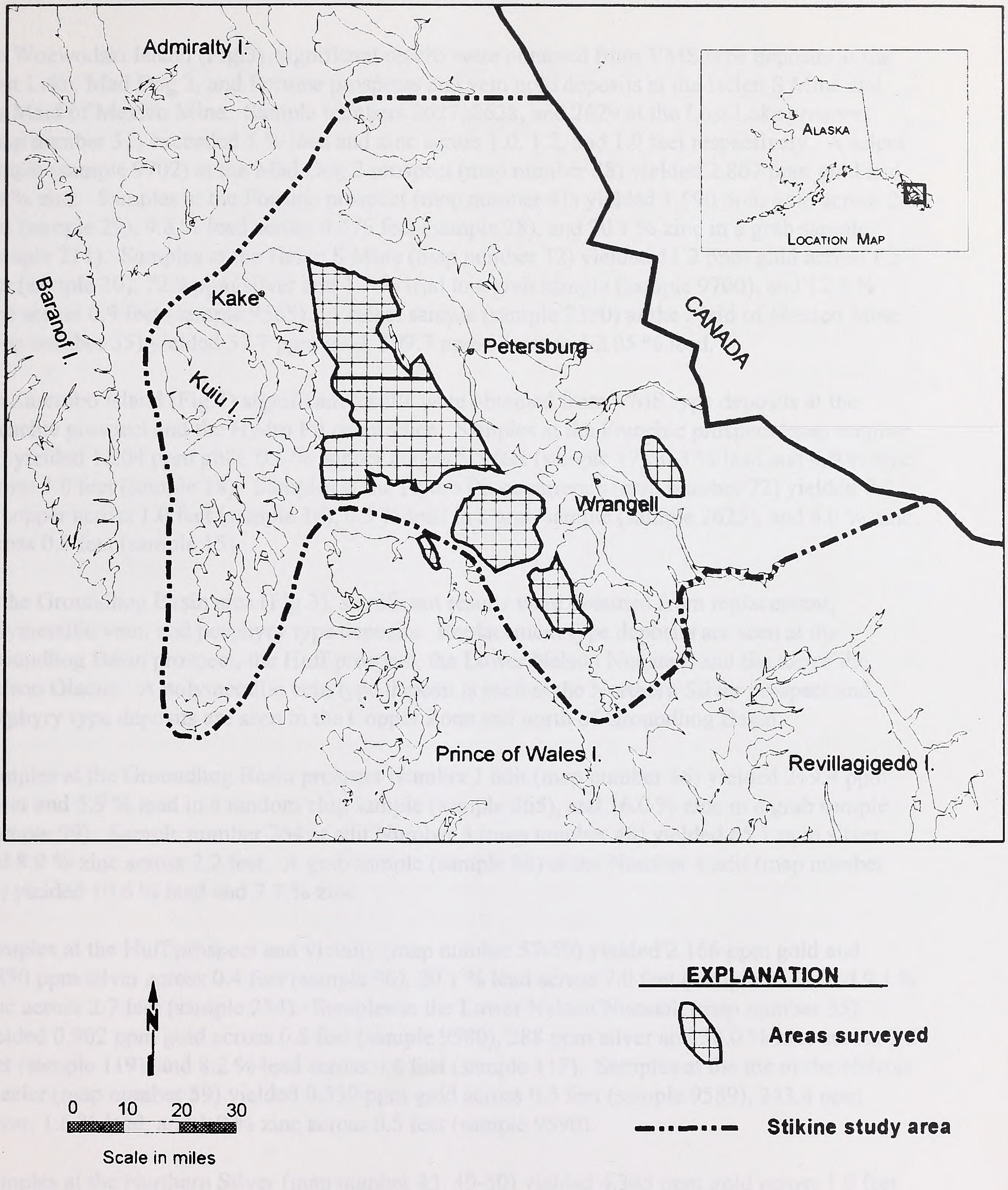

Figure 2. - 1997 joint BLM-Wrangell-ADGGS geophysical survey areas

On Woewodski Island (Fig.3), significant results were obtained from VMS type deposits at the Lost Lake, Mad Dog 2, and Fortune prospects and vein gold deposits at the Helen S Mine and the Maid of Mexico Mine. Sample numbers 2627, 2628, and 2629 at the Lost Lake prospect (map number 31) exceeded 1 % lead and zinc across 1.0, 1.2, and 1.9 feet respectively. A select sample (sample 9702) at the Mad Dog 2 prospect (map number 38) yielded 2.867 ppm gold and 2.9 % zinc. Samples at the Fortune prospect (map number 41) yielded 1.590 ppm gold across 2.0 feet (sample 29), 9.8 % lead across 0.075 feet (sample 28), and 20.1 % zinc in a grab sample (sample 211). Samples at the Helen S Mine (map number 32) yielded 11.2 ppm gold across 1.5 feet (sample 30), 72.9 ppm silver and 1.7 % lead in a grab sample (sample 9700), and 12.8 % zinc across 0.9 feet (sample 9565). A select sample (sample 2390) at the Maid of Mexico Mine (map number 35) yielded 37.7 ppm gold, 109.7 ppm silver, and 2.05 % lead.

On Zarembo Island (Fig.3) significant results were obtained from VMS type deposits at the Frenchie prospect and the Hydro Pit occurrence. Samples at the Frenchie prospect (map number 71) yielded 1.204 ppm gold, 0.5 % copper across 5.5 feet (sample 17), 0.3 % lead and 4.9 % zinc across 5.0 feet (sample 18). Samples at the Hydro Pit occurrence (map number 72) yielded 0.4 % copper across 1.0 feet (sample 16), 0.3 % lead in a grab sample (sample 2625), and 4.0 % zinc across 0.8 feet (sample 15).

In the Groundhog Basin area (Fig.3), significant results were obtained from replacement, polymetallic vein, and porphyry type deposits. Replacement type deposits are seen at the Groundhog Basin prospect, the Huff prospect, the Lower Nelson Nunatak, and the toe of the Nelson Glacier. A polymetallic vein type deposit is seen at the Northern Silver prospect and porphyry type deposits are seen in the Copper Zone and north of Groundhog Basin.

Samples at the Groundhog Basin prospect Number 1 adit (map number 46) yielded 219.4 ppm silver and 5.9 % lead in a random chip sample (sample 265), and 16.0 % zinc in a grab sample (sample 99). Sample number 264 at adit Number 3 (map number 48) yielded 65.1 ppm silver and 8.9 % zinc across 2.2 feet. A grab sample (sample 98) at the Number 4 adit (map number 48) yielded 10.6 % lead and 7.7 % zinc.

Samples at the Huff prospect and vicinity (map number 57-59) yielded 2.166 ppm gold and 7,830 ppm silver across 0.4 feet (sample 96), 20.1 % lead across 7.0 feet (sample 255), and 9.1 % zinc across 2.7 feet (sample 254). Samples at the Lower Nelson Nunatak (map number 55) yielded 0.902 ppm gold across 0.8 feet (sample 9580), 288 ppm silver and 30.0 % zinc across 0.5 feet (sample 119), and 8.2 % lead across 0.4 feet (sample 117). Samples at the toe of the Nelson Glacier (map number 59) yielded 0.359 ppm gold across 0.5 feet (sample 9589), 243.4 ppm silver, 1.6 % lead, and 1.9 % zinc across 0.5 feet (sample 9590).

Samples at the Northern Silver (map number 43, 49-50) yielded 4.345 ppm gold across 1.0 feet (sample 120), 17,746 ppm silver and 39.8 % lead across 0.4 feet (sample 121), and 12.4 % zinc in a grab sample (sample 123).

Samples at the Copper Zone (map number 52) yielded 4.58 ppm gold across 0.2 feet (sample 9596), 8.1 % copper in a select sample (sample 131), 675.4 ppm silver, 1.7 % lead, and 2.65 % zinc across 0.5 feet (sample 133). A grab sample (sample 144), north of Groundhog Basin (map number 44), contained 0.5 % molybdenum.

In the Cornwallis Peninsula area (Fig.3), significant results were obtained from replacement type deposits at the Kuiu Lead Zinc prospect and the Hungerford prospect. A select sample (sample 9578) at the Kuiu Lead Zinc prospect (map number 4) yielded 744 ppm silver, 20.5 % lead, and 13.4 % zinc. A grab sample (sample 9577) at the Hungerford prospect yielded 199 ppm silver, 2.8 % lead, and 2.2 % zinc.

Future Work

Additional field work in the Stikine study area is scheduled for 1998 and 1999. This work will consist of following up any significant results obtained in the 1997 field work, follow up of geophysical anomalies as defined in the 1997 airborne geophysical survey, and investigation of other prospects and occurrences not visited in 1997. An annual report of the 1998 field season is scheduled to be released in 1999 and a final report of the Stikine study area is scheduled for release in 2000.

Sampling and Analytical Procedures

Sampling Methods

Several types of rock samples were collected, including chip channel, continuous chip, representative chip, spaced chip, random chip, grab, and select samples to evaluate mineral deposits. **Chip channel** samples are chips of rock taken in a continuous line across a relatively uniform width and depth of an exposure. **Continuous chip** samples are chips of ore or rock taken in a continuous line across an exposure. **Representative chip** samples are discontinuous chips of rock taken across an exposure. **Spaced chip** samples are chips of rock taken at a specified interval across an exposure. **Random chip** samples are chips of rock taken randomly across an exposure. **Grab** samples are rock fragments taken more or less at random from an outcrop, float, or mine dump. **Select** samples are grab samples collected from the highest grade portion of a mineralized zone.

Stream sediment samples were taken as a reconnaissance measure to detect any anomalous metal values which may indicate mineralization in the area. **Stream sediment** samples are collections of silt and clay size particles taken from a stream bed.

Analytical Methods

Rock samples were dried, crushed, and pulverized to minus 100 mesh. A sample weight of 0.5 grams was put into solution using a nitric-aqua-regia leach technique and analyzed by atomic absorption spectrophotometry (AA) or inductively coupled argon plasma (ICP) analyses.

Samples were analyzed for gold by fire assay pre-concentration of a 30 gram sample followed by an AA finish with results reported in parts per billion. For gold values exceeding the upper detection limit of 10,000 ppb, a gravimetric finish was performed and results reported in ounces per ton . Silver, copper, lead, zinc, and molybdenum were analyzed by both AA and ICP techniques with results reported in parts per million. The result from the more accurate method is presented in the table. Those that exceeded the upper detection limits were subjected to low level assays with results reported in percent, with the exception of silver which was finished with a gravimetric method and results reported in ounces per ton. Platinum and palladium were analyzed by fire assay pre-concentration of a 30 gram sample with an ICP finish and results reported in parts per billion. Mercury was analyzed by cold vapor and result reported in parts per billion. The remaining 26 elements were analyzed by ICP and results reported as either parts per million or percent. Any samples which exceeded the upper detection limits were not reanalyzed but were reported as greater than the corresponding upper detection limits.

Minimum Detection limits by analytical technique

Fire assay

Element	Minimum, ppm	Finish Method
Au	0.005	atomic absorption (AA) (Chemex & Bondar Clegg)
Au	0.005 opt	gravimetric (Bondar Clegg)
Ag	0.02 opt	gravimetric (Bondar Clegg)
Pd	0.001	inductively coupled argon plasma(ICP) (Bondar Clegg)
Pt	0.005	inductively coupled argon plasma (ICP) (Bondar Clegg)

Atomic absorption spectrophotometry (AA)

Element	Min, ppm Chemex	Min, ppm Bondar Clegg	Element	Min, ppm Chemex	Min, ppm Bondar Clegg
Ag	0.2	0.1	Co	1	1
Cu	1	1	Ni	1	1
Pb	1	2	Hg	0.01	0.01
Zn	1	1	Cu,ore-grade	0.01%	0.01%
Mo	1	1			

Inductively coupled argon plasma (ICP) spectroscopy

Element	Min, ppm Chemex	Min, ppm Bondar Clegg	Element	Min, ppm Chemex	Min, ppm Bondar Clegg
Ag	0.2	0.2	Ga	10	2
Cu	1	1	K	100	100
Pb	2	2	La	10	1
Zn	2	1	Mg	100	100
Mo	1	1	Mn	5	1
Ni	1	1	Na	100	100
Co	1	1	Nb		1
Al	100	100	Sb	2	2
As	2	5	Sc	1	5
Ba	10	1	Sn		20
Be	0.5	0.5	Sr	1	10
Bi	2	5	Te		10
Ca	100	100	Ti	100	100
Cd	0.5	100	V	1	1
Cr	1	1	W	10	20
Fe	100	100			

ANALYTICAL RESULTS OF MINES, PROSPECTS AND OCCURRENCES

Sample and analytical data are presented in Table 1. In addition to the analytical results, the following information is also listed: map number, field sample number, location of the sample, sample type, sample size and a brief sample description. The results are organized by map number, which are shown on the sample location map (Fig. 3) in the pocket.

Units

All analyses were conducted by commercial laboratories. Results are given by the element's chemical symbol by the following units except when noted by an asterisk (*):

Au, Pt, Pd - parts per billion (ppb)

Ag, Cu, Pd, Zn, Mo, Ni, Co, As, Ba, Be, Bi, Cd, Cr, Ga, Hg, La, Mn, Nb, Sb, Sc, Sn, Sr, Te, V, W - parts per million (ppm)

Al, Ca, Fe, K, Mg, Na, Ti - percent (%)

If followed by an asterisk, Au and Ag values are in ounces per ton (opt) and Cu, Pb, and Zn are in percent.

Abbreviations

Sample location:

@	at	N	North
Ck	Creek	#	number
E	East	Rd	Road
ft	feet	S	South
Is	Island	W	West

Sample types:

<u>Rock Chip</u>

C	continuous chip
CC	chip channel
G	grab
RC	random chip
Rep	representative chip
S	select
SC	spaced chip

Stream Sample

SS	stream sediment

Sample sites:

FL	float	TP	trench, pit or cut
MD	mine dump	UW	underground workings
MT	mine tailings	OC	outcrop
RC	rubble crop		

Sample descriptions:

@	at	int	intrusive
adj	adjacent	ls	limestone
alt	altered	mag	magnetite
ar	argillite	meta	metamorphic
bt	biotite	ml	malachite
br	breccia/brecciated	mo	molybdenite
calc	calcite/calcareous	msv	massive
cg	coarse-grained	peg	pegmatite
chl	chlorite/chloritic	po	pyrrhotite
cp	chalcopyrite	porph	porphyry/porphyritic
di	diorite	py	pyrite/pyritic
dissem	disseminated/disseminations	qz	quartz
dol	dolomite/dolomitic	sed	sediment
fel	felsic	sc	schist
fest	iron stained	sil	silicified/siliceous
fg	fine-grained	sl	sphalerite
gn	galena	sulf	sulfide
gp	graphite/graphitic	vn	vein
gs	greenstone	volc	volcanic
hnbd	hornblende	w/	with
hn	hornfels		

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Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No.	Sample No.	Location	Sample Type	Sample Size (ft.)	Sample Site	Sample Description	Au30 ppb opt *	Ag ppm opt *	Cu ppm % *	Pb ppm % *	Zn ppm % *	Mo ppm	Ni ppm	Co ppm
1	2360	Pinta Point	Rep		OC	Sil sc w/ fg dissem sulf	<5	0.2	6	20	63	6	9	<1
1	2361	Pinta Point	G		OC	Gp sc w/ po & py	<5	0.3	38	22	88	2	24	11
1	2362	Pinta Point	G		OC	Gp sc w/ dissem py	<5	<0.1	166	19	297	8	82	30
1	2363	Pinta Point	Rep	11	OC	Gp sc & chert w/ msv & dissem sulf	43	0.8	143	20	624	52	278	21
1	2364	Pinta Point	S		OC	Gp sc / slate w/ seams of py	78	2.1	249	44	878	52	427	13
1	2391	Pinta Point	S		OC	Fel sc w/ layered sulf	81	0.9	185	38	489	61	281	24
2	2365	Pinta Point	S		OC	Sulf-rich lens in gp sc	29	0.6	661	60	1595	86	921	69
3	2614	Keku Islet	S	0.1	OC	Fractured & br basalt w/ sl along fractures	<5	<.001	0.09	0.06	13.5	0.02	12	16
4	9578	Kuiu Lead Zinc	S		TP	Dol w/ gn & sl	<5	21.72 *	428	20.54 *	13.4 *	8	2	1
5	9577	Hungerford, at beach	G	1.2	OC	Br w/ barite, gn, sl, jasper, chert	<5	5.818 *	25	2.84 *	2228	2	3	5
6	9703	Security Cove, W of	Rep	6	OC	Fest fel dike w/ dissem po	11	0.6	16	44	209	3	4	<1
7	2375	Kuiu Is, 3305 ft peak	Rep		RC	Fel dikes w/ dissem po	<5	<0.1	31	8	79	5	6	2
7	2376	Kuiu Is, 3305 ft peak	G		OC	Fel dike w/ py & po	<5	<0.1	38	4	8	6	8	2
7	9572	Kuiu Is, 3305 ft peak	Rep	4.7	OC	Fel int w/ dissem nodules of fg po	<5	<0.1	14	12	99	4	6	2
7	9573	Kuiu Is, 3305 ft peak	Rep	1.6	OC	Mafic dike w/ very fg po	<5	<0.1	39	8	74	3	29	31
8	104	Northern Copper	G	0.5	TP	Fest gs w/ py, cp	18	2.8	8111	13	118	<1	13	44
8	105	Northern Copper	S	0.5	MD	Msv po, py, cp, sl	6	7.1	16981	10	341	<1	11	55
8	106	Northern Copper	SC	20 @ 1.0	TP	Gs w/ sulf zones of cp, py, po, sl	28	5	5657	12	191	<1	3	5
8	107	Northern Copper	Rep		MD	Calc gs w/ bands & blebs of po, cp, sl	21	8.5	12038	14	661	<1	<1	11
8	108	Northern Copper	Rep	3	MD	Gs w/ sl, cp, po, py	<5	1.4	1717	42	12473	<1	7	9
8	266	Northern Copper	Rep	2.5	TP	Alt sil ar w/ dissem sulf in #4 trench	<5	1.2	1429	84	7961	<1	5	13
8	267	Northern Copper	Rep	2.2	TP	Gs w/ dissem & msv sulf in #4 trench	12	1.1	3865	20	179	<1	4	97
8	268	Northern Copper	S		MD	Gs w/ dissem & msv sulf	6	1.7	8222	12	83	<1	9	169
9	230	Salt Chuck area	C	6.5	OC	Qz vn	<5	<0.1	4	35	25	1	9	<1
9	231	Salt Chuck area	S		RC	Qz vn /sc contact w/ py	<5	<0.1	140	9	20	<1	11	8
10	111	Towers Ck, @ falls	C	0.9	OC	Fest sc w/ fg py, po, cp	18	0.2	565	6	98	8	69	42
10	112	Towers Ck, @ falls	C	4.5	OC	Fest sc w/ fg py, po, cp	9	<0.1	175	7	77	6	54	46
10	113	Towers Ck, @ falls	Rep	0.6	OC	Sulf band of msv fg py, w/ sparse cp	8	<0.1	192	6	54	4	48	57
10	270	Towers Ck	Rep	2.1	OC	Gs w/ dissem sulf	8	<0.1	250	13	90	7	50	30
10	271	Towers Ck	Rep	1.7	OC	Gs sc w/ dissem sulf	11	0.1	238	8	40	10	84	86
10	272	Towers Ck	Rep	1.1	OC	Gs sc w/ dissem sulf	5	0.2	713	9	71	13	82	27
11	2345	Towers Ck	C	0.6	RC	Mica sc w/ banded sulfs	69	0.4	188	8	27	3	136	86
11	2346	Towers Ck	SS			Stream in gs	12	0.5	114	31	171	4	29	15
11	2347	Towers Ck	G	0.5	FL	Sil gs br w/ py	7	<0.1	94	5	68	2	45	40
11	9558	Towers Ck	RC	1.5	RC	Fest gray sc w/ banded & nodular sulf	24	0.2	200	6	32	2	132	59
11	9559	Towers Ck	SS			Creek flows on gs sc	<5	<0.1	37	7	78	<1	22	14
12	2358	Salt Chuck area	Rep	0.5	RC	Qz vn	<5	<0.1	6	<2	<1	<1	10	<1
13	60	Portage Ck	S		RC	Hnbd rich int w/ py & cp	<5	<0.1	233	10	92	2	8	13
13	61	Portage Ck	G		RC	Hnbd rich int w/ py & cp	<5	<0.1	262	9	94	1	2	17
13	62	Portage Ck	G		RC	Hnbd rich int w/ py & cp	<5	<0.1	925	9	101	2	2	31
13	138	Portage Ck	SC	15 @ 1.0	OC	Hornblendite w/ cp, py	5	0.4	1853	11	143	2	3	48
13	139	Portage Ck	SC	15 @ 1.0	OC	Hornblendite w/ cp, py	<5	0.6	4666	9	223	2	4	61
13	140	Portage Ck	SC	15 @ 1.0	OC	Hornblendite w/ sulf	<5	0.2	1111	8	151	2	4	30
13	141	Portage Ck	C	2.5	OC	Hornblendite w/ py, cp	<5	0.4	2692	8	221	2	4	225
13	2367	Portage Ck	SC	40 @ 2	OC	Hornblendite w/ sulf	5	<0.1	2597	6	164	2	5	47

Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No.	Sample No.	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Cr ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Na %	Nb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Te ppm	Ti %	V ppm	W ppm	Pt ppb	Pd ppb
1	2360	0.46	8	20		<5	0.29	<0.2	71	2.9	<2	0.027	0.31	33	0.04	162	0.01	<1	<5	<5	<20	17	<10	<0.01	<1	<20		
1	2361	1.47	23	69		<5	3.74	<0.2	43	3.51	3	0.028	0.18	8	1.1	722	0.03	4	<5	<5	<20	115	<10	<0.01	27	<20		
1	2362	3.25	<5	28		<5	0.16	0.6	82	8.5	5	0.024	0.09	1	3.69	1000	0.04	15	<5	18	<20	10	<10	<0.01	316	<20		
1	2363	1.75	226	8		<5	5.27	3.9	132	20.07	<2	0.33	0.14	3	1.69	1019	0.01	5	12	9	<20	91	<10	0.01	150	<20		
1	2364	0.53	287	15		<5	4.93	5.4	77	17.41	<2	1.359	0.13	2	0.42	301	<0.01	1	27	<5	<20	151	<10	<0.01	78	<20		
1	2391	1.19	279	2		<5	1.66	2	83	24.87	<2	1.868	0.17	3	1.05	486	0.01	<1	7	<5	<20	11	<10	<0.01	90	<20		
2	2365	2.09	25	<1		<5	0.52	5.2	81	27.46	<2	0.015	0.06	8	2.35	391	0.02	9	<5	<5	<20	29	<10	0.2	210	<20		
3	2614	0.34	12	30	<.5	4	6.21	>100.0	22	1.34	10	11.40	0.3	<10	0.05	1005	0.04		10	12		59		<.01	29	<10		
4	9578	0.11	19	3		<5	0.4	1057.4	25	11.5	<2	17.43	0.07	12	0.1	>20000	<0.01	<1	355	<5	<20	20	34	<0.01	<1	<20		
5	9577	0.08	<5	70		<5	0.65	49.8	24	7.14	<2	34.46	0.08	8	0.31	15162	0.02	<1	72	<5	<20	705	<10	<0.01	<1	<20		
6	9703	0.5	13	611		<5	0.02	1.1	121	1.33	<2	0.032	0.12	14	0.02	37	0.09	<1	<5	<5	20	8	<10	<0.01	<1	20		
7	2375	0.41	8	27		<5	0.16	0.2	140	1.93	<2	<0.01	0.12	25	0.06	209	0.11	2	<5	<5	<20	7	<10	0.08	2	<20		
7	2376	0.48	<5	25		<5	0.06	<0.2	148	1.6	3	<0.01	0.11	24	0.07	79	0.11	<1	<5	<5	<20	4	<10	0.01	1	<20		
7	9572	0.4	6	156		<5	0.16	0.2	151	1.88	<2	0.273	0.12	21	0.06	223	0.11	2	<5	<5	<20	6	<10	0.06	2	<20		
7	9573	3.11	13	70		<5	2.17	<0.2	89	5.44	<2	0.036	0.85	9	1.51	521	0.51	6	<5	8	<20	64	<10	0.33	89	<20		
8	104	0.13	<5	51		<5	0.12	0.6	172	44.97	<2	0.019	<0.01	<1	0.02	117	<0.01	<1	<5	<5	<20	<1	<10	<0.01	3	<20		
8	105	0.06	<5	<1		<5	<0.01	2.1	88	46.28	<2	0.029	<0.01	2	0.03	116	<0.01	<1	<5	<5	<20	<1	<10	<0.01	4	<20		
8	106	0.16	<5	25		<5	0.69	1.3	42	24.74	<2	<0.01	<0.01	2	0.08	1581	<0.01	<1	<5	<5	<20	4	<10	0.01	8	<20		
8	107	0.13	<5	43		<5	1.06	3.7	27	6.84	<2	<0.01	0.01	2	0.07	1202	0.01	<1	<5	<5	<20	4	<10	<0.01	3	<20		
8	108	0.48	<5	41		<5	3.33	56.6	33	6.35	<2	0.048	0.02	5	0.36	3005	0.03	<1	<5	<5	<20	56	<10	0.03	13	<20		
8	266	0.33	8	40		<5	3.45	34.1	86	5.33	<2	0.014	0.03	1	0.11	3380	0.03	<1	<5	<5	<20	29	<10	0.01	6	<20		
8	267	0.16	<5	13		<5	2.21	1.1	60	26.19	<2	<0.01	<0.01	7	0.1	1966	0.02	<1	<5	<5	<20	11	<10	0.03	8	<20		
8	268	0.05	<5	3		<5	0.38	0.7	36	28.88	<2	<0.01	<0.01	<1	0.07	461	0.01	<1	<5	<5	<20	2	<10	<0.01	<1	<20		
9	230	0.01	<5	45		<5	0.02	<0.2	187	0.2	<2	0.159	<0.01	<1	0.02	26	<0.01	<1	<5	<5	<20	<1	<10	<0.01	1	<20		
9	231	0.22	<5	49		<5	3.48	<0.2	138	1.39	<2	0.015	0.02	<1	0.25	441	0.01	<1	<5	<5	<20	77	<10	<0.01	17	<20		
10	111	2.14	24	16		<5	0.99	0.3	93	13.38	<2	0.471	0.07	2	2.05	576	0.03	<1	<5	14	<20	18	<10	0.3	215	<20		
10	112	2.98	18	16		<5	1.53	<0.2	85	12.61	<2	0.297	0.05	3	2.81	879	0.01	3	<5	20	<20	22	<10	0.3	245	<20		
10	113	2.07	21	29		<5	0.71	<0.2	72	9.5	<2	0.368	0.17	2	1.79	533	0.02	1	<5	7	<20	8	<10	0.28	132	<20		
10	270	2.72	18	25		<5	2.76	0.3	98	11.19	<2	0.364	0.1	3	2.46	940	0.03	4	<5	15	<20	36	<10	0.29	226	<20		
10	271	1	64	8		<5	0.97	0.4	63	19.33	<2	1.396	0.2	2	0.7	257	0.02	<1	<5	5	<20	11	<10	0.24	80	<20		
10	272	1.85	34	9		<5	3.23	0.6	92	20.77	<2	0.759	0.06	2	1.66	843	0.02	<1	<5	12	<20	53	<10	0.26	156	<20		
11	2345	0.36	22	2		<5	1.37	<0.2	45	29.8	<2	0.512	0.09	<1	0.17	221	0.01	<1	<5	<5	<20	33	<10	0.27	23	<20		
11	2346	1.34	40	94		<5	0.56	1	27	4.53	<2	0.262	0.07	7	0.81	942	0.02	3	<5	<5	<20	23	<10	0.1	67	<20		
11	2347	0.61	10	8		<5	1.79	<0.2	183	8.78	<2	0.539	0.03	2	0.37	238	0.06	7	<5	10	<20	18	<10	0.47	163	<20		
11	9558	0.57	15	9		<5	2.41	<0.2	57	19.63	<2	0.385	0.12	<1	0.36	368	0.02	3	<5	<5	<20	43	<10	0.44	48	<20		
11	9559	1.38	7	68		<5	0.44	<0.2	24	2.9	<2	0.067	0.05	6	0.68	600	0.02	4	<5	<5	<20	21	<10	0.1	62	<20		
12	2358	0.04	<5	2		<5	0.01	<0.2	353	0.39	<2	<0.01	<0.01	<1	0.02	37	<0.01	<1	<5	<5	<20	1	<10	<0.01	2	<20		
13	60	3.53	<5	78		<5	3.95	<0.2	61	7.11	<2	<0.01	0.33	4	2.13	922	0.42	4	<5	10	<20	267	<10	0.19	235	<20	<5	3
13	61	3.69	<5	136		<5	4.07	<0.2	34	8.75	<2	0.018	0.57	5	2.38	1116	0.55	4	<5	16	<20	248	<10	0.13	332	<20	<5	3
13	62	3.26	<5	56		<5	3.76	<0.2	28	10	<2	0.016	0.4	5	1.93	1208	0.47	4	<5	12	<20	276	<10	0.12	362	<20	32	38
13	138	4.07	<5	24		<5	2.79	<0.2	39	17.65	<2	0.016	2.15	8	3.37	2083	0.43	20	<5	11	<20	95	<10	0.31	367	<20	5	24
13	139	4.39	<5	17		<5	1.68	<0.2	30	19.92	<2	<0.01	3.01	6	3.57	1956	0.19	18	<5	8	<20	76	<10	0.24	380	<20	6	18
13	140	5.01	<5	49		<5	3.59	<0.2	36	16.37	<2	0.014	2.58	10	3.69	2396	0.52	24	<5	14	<20	200	<10	0.21	466	<20	<5	12
13	141	4.99	11	14		<5	1.71	<0.2	45	23.21	<2	0.011	3.23	5	4.3	2174	0.17	22	<5	8	20	64	<10	0.62	443	<20	10	29
13	2367	3.77	<5	18		<5	3.11	<0.2	51	17.39	<2	<0.01	1.56	9	2.82	1976	0.42	14	<5	11	<20	138	<10	0.27	354	<20	7	13

Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No.	Sample No.	Location	Sample Type	Sample Size (ft.)	Sample Site	Sample Description	Au30 * ppb opt	Ag * ppm opt	Cu * ppm %	Pb * ppm %	Zn * ppm %	Mo ppm	Ni ppm	Co ppm
13	2368	Portage Ck	SC	12 @ 1	OC	Hornblendite w/ sulf	2	0.2	4654	7	214	2	8	57
13	2369	Portage Ck	SC		OC	Hornblendite w/ cp, mal & py	2	0.3	4294	4	194	4	7	56
13	9599	Portage Ck	SC	10 @ 0.5	OC	Hnbd di w/ dissem po, cp	<5	<0.1	239	7	96	2	2	15
13	9600	Portage Ck	SC	18 @ 1.0	OC	Hnbd di w/ dissem po	<5	0.2	22	9	64	<1	3	27
14	136	Portage Ck	SC	27 @ 1.0	OC	Hnbd di w/ po & cp	<5	2.1	311	60	134	2	2	23
14	137	Portage Ck	G	0.3	RC	Green gray volc w/ fg dissem po, cp	6	0.3	708	17	139	5	7	30
14	232	Portage Ck	S		RC	Hnbd rich int w/ py	<5	<0.1	61	11	96	<1	2	9
14	233	Portage Ck	Rep	1.5	OC	Hnbd rich int w/ py & cp	<5	<0.1	215	7	91	<1	1	20
14	9598	Portage Ck	C	0.8	OC	Hnbd di w/ dissem po, cp	<5	<0.1	91	11	86	2	2	18
15	114	Coonrod Zinc	C	1.2	OC	Sil gs sc w/ fg py	59	0.3	30	21	78	4	4	4
15	116	Coonrod Zinc	C	0.5	OC	Qz vn w/ po & sl in bands & blebs	8	0.6	264	60	5698	<1	20	15
15	273	Coonrod Zinc	Rep	0.5	RC	Qz vn	64	2.2	1775	200	3160	<1	16	3
16	109	Salt Chuck	S	0.4	OC	Sil gs w/ py, po, cp	61	9.9	7.1 *	7	194	3	<1	8
16	110	Salt Chuck	C	0.9	OC	Fest sil gs w/ py, po, cp	31	3.4	17855	5	48	2	<1	2
16	269	Salt Chuck	Rep	1	OC	Sil gs w/ cp	41	3.4	3 *	8	102	<1	2	18
17	56	North Arm	G	0.4	OC	Qz-sericite sc w/ py	<5	0.3	27	69	112	3	44	12
17	57	North Arm	Rep	0.4	OC	Fest qz-sericite sc w/ py	<5	1.3	21	42	110	2	59	13
17	229	North Arm	Rep	2.5	OC	Qz vn	<5	<0.1	4	22	118	3	14	1
18	59	Towers Arm	S		OC	Fest black ls & marble w/ py	<5	0.1	33	46	177	2	47	14
19	58	Towers Arm	Rep	0.5		Irregular qz stringers & lenses in ls	<5	<0.1	4	84	57	3	15	<1
20	53	Taylor Ck, @ hill	Rep	0.7	OC	Dol ls w/ py, sl & gn	45	25.9	16	7.72 *	6.9 *	1	13	3
20	54	Taylor Ck	S		MD	Dol ls w/ sulf	99	>500	70	7217	2.1 *	2	3	<1
20	226	Taylor Ck, @ hill	G		TP	Gossan	903	160	47	9.69 *	3 *	9	8	<1
20	227	Taylor Ck, @ hill	RC		TP	Dol ls w/ sulf	32	4.1	5	2333	2.4 *	1	5	<1
21	51	Taylor Ck	Rep	0.8	OC	Gossan in ls	129	6.9	61	1114	4417	3	6	2
21	52	Taylor Ck, @ pit	G		MD	Dol ls w/ py, sl & gn	183	93	453	0.78 *	5.1 *	3	49	15
21	225	Taylor Ck	Rep	1.6	OC	Gray ls w/ qz & py	176	10.1	69	2431	9441	4	10	3
22	55	North Arm	Rep	0.5	OC	Fest gs	<5	1.2	398	420	342	2	64	33
22	228	North Arm	G	0.2	OC	Qz vn w/ sulf	<5	0.6	76	215	235	<1	29	10
23	50	Indian Point	Rep	0.15	OC	Sulf bearing sil band in qz-sericite sc	187	0.2	47	115	129	7	38	13
23	224	Indian Point	Rep	0.13	OC	Sulf	87	0.4	44	131	110	5	54	23
24	47	Castle River, N of	Rep	0.5	OC	Black slate w/ py & sl	24	24.2	58	2547	3 *	8	11	<1
24	48	Castle River, N of	Rep	0.15	OC	Sulf band in slate	24	25.3	62	4661	2.8 *	10	13	<1
24	222	Castle River, N of	Rep	0.2	OC	Sil black slate w/ sulf	6	9.3	33	893	3382	12	20	<1
24	223	Castle River, N of	Rep	1.6	OC	Sil black slate w/ sulf	8	19.7	46	1633	11721	9	11	<1
24	2622	Castle River, N of	G	0.3	OC	Py band in slate	20	30.8	51	5400	>10000	5	8	3
25	49	Castle River area	Rep	0.5	OC	Qz band in fest gs	8	0.2	44	41	129	1	9	8
26	42	Castle Is Barite	G		MD	Barite w/ very fg sulf	59	15.9	518	1584	5630	7	10	<1
26	43	Castle Is Barite	G		MD	Barite w/ banded py	76	42.6	247	5547	13821	4	8	<1
26	46	Castle Is Barite	G	0.4	MD	Banded barite w/ py	347	151	298	7783	2.3 *	3	2	<1
26	218	Castle Is Barite	G		MD	Barite w/ sulf	58	28.8	413	4971	16569	3	3	1
26	2621	Castle Is Barite	G		MD	Barite w/ bands of py and gn	85	31.2	400	3500	9800	3	4	2
27	44	Castle Is Barite, E side	G	0.75	OC	Qz & dike	8	0.2	6	121	534	1	10	6
27	219	Castle Is Barite	C	1	OC	Qz vn	<5	<0.1	12	31	109	<1	6	2
28	45	Castle Is Barite, SW end	G		OC	Fest sil gs sc	9	0.3	187	11	116	1	49	29

Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No.	Sample No.	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Cr ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Na %	Nb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Te ppm	Ti %	V ppm	W ppm	Pt ppb	Pd ppb
13	2368	4.27	<5	12		<5	2.27	<0.2	55	18.98	<2	0.025	2.35	8	3.65	1967	0.28	17	<5	9	<20	87	<10	0.37	369	<20	<5	25
13	2369	3.31	<5	10		<5	4.07	<0.2	47	21.07	<2	<0.01	0.94	11	2.15	2095	0.49	11	<5	11	<20	152	<10	0.3	291	<20	<5	8
13	9599	3.22	<5	58		<5	2.7	<0.2	51	5.05	<2	<0.01	0.25	4	1.89	767	0.26	9	<5	6	<20	279	<10	0.13	177	<20	<5	2
13	9600	2.49	<5	36		<5	2.82	<0.2	25	16.97	<2	<0.01	0.3	1	2.06	637	0.4	23	<5	18	<20	144	<10	0.22	499	<20	39	21
14	136	3.91	6	187		<5	3.67	<0.2	43	4.32	<2	<0.01	0.45	8	1.87	1284	0.6	13	<5	8	<20	583	<10	0.24	206	<20	<5	50
14	137	3.77	8	14		<5	1.83	<0.2	7	13.74	<2	<0.01	0.23	27	0.7	468	0.05	6	<5	31	<20	565	<10	0.13	160	<20	<5	<1
14	232	2.26	<5	66		<5	2.17	<0.2	37	4.34	<2	0.034	0.3	6	1.45	1042	0.24	3	<5	6	<20	190	<10	0.18	163	<20	<5	6
14	233	2.48	<5	102		<5	2.16	<0.2	34	3.92	<2	0.012	0.23	7	1.56	1039	0.19	3	<5	6	<20	285	<10	0.16	144	<20	<5	7
14	9698	3.3	<5	77		<5	3.05	<0.2	43	4.86	<2	<0.01	0.35	5	1.89	916	0.36	10	<5	9	<20	318	<10	0.18	191	<20	<5	<1
15	114	0.07	54	22		<5	0.03	0.3	37	1.77	<2	0.028	0.06	<1	<0.01	44	<0.01	<1	<5	<5	<20	2	<10	<0.01	1	<20		
15	115	0.05	11	17		<5	1.97	20	95	3.69	<2	0.335	0.04	<1	<0.01	534	<0.01	<1	<5	<5	<20	46	<10	<0.01	<1	<20		
15	273	0.06	24	13		<5	0.02	12	269	1.22	<2	0.215	0.04	<1	<0.01	35	<0.01	<1	<5	<5	<20	1	<10	<0.01	2	<20		
16	109	0.7	<5	19		<5	0.37	0.6	33	16.6	<2	0.067	0.13	6	0.13	116	0.02	8	<5	<5	<20	65	<10	0.05	6	<20		
16	110	0.16	<5	17		<5	0.07	<0.2	8	5.94	<2	0.038	0.04	7	<0.01	20	0.04	3	<5	<5	<20	10	<10	0.06	5	<20		
16	269	0.76	<5	19		<5	0.14	0.3	42	6.86	<2	0.037	0.04	11	0.2	139	0.07	6	<5	<5	<20	16	<10	0.06	11	<20		
17	56	6.98	10	71		<5	1.3	0.5	80	8.6	7	0.103	0.05	<1	0.47	246	0.02	5	<5	<5	<20	2	<10	0.02	34	<20		
17	57	8.05	33	87		<5	2.81	0.3	39	9.47	4	0.091	0.09	<1	1.19	888	0.01	3	<5	<5	<20	2	<10	<0.01	12	<20		
17	229	0.81	<5	101		<5	7.47	0.2	83	1.05	<2	0.108	<0.01	2	4.12	226	<0.01	5	<5	<5	<20	149	<10	<0.01	6	<20		
18	50	2.33	68	35		<5	10	0.4	42	10	<2	0.052	0.04	13	2.05	3025	0.01	1	<5	8	<20	116	<10	<0.01	109	<20		
19	58	0.03	<5	536		<5	0.65	<0.2	303	0.34	<2	0.104	<0.01	<1	0.05	41	0.01	<1	<5	<5	<20	17	<10	<0.01	<1	<20		
20	53	0.01	417	17		<5	6.01	180.3	36	9.84	<2	49.117	<0.01	2	3.05	5572	<0.01	<1	229	<5	<20	30	<10	<0.01	7	<20		
20	54	0.03	94	7		<5	7.29	29.5	44	7.7	<2	24.3	<0.01	2	3.35	7244	<0.01	<1	182	<5	<20	24	<10	<0.01	3	<20		
20	226	0.07	1362	48		<5	0.09	6.7	6	10	<2	50	<0.01	3	0.01	1081	<0.01	<1	435	<5	<20	3	<10	<0.01	11	<20		
20	227	0.04	69	265		<5	10	13	2	2.59	<2	10.221	<0.01	5	7.72	6700	<0.01	7	8	<5	<20	39	<10	<0.01	7	<20		
21	51	0.05	318	28		<5	6.5	11.6	5	10	<2	2.298	<0.01	4	3.31	5571	<0.01	<1	87	<5	<20	21	<10	<0.01	8	<20		
21	52	0.02	437	9		<5	3.48	121.7	48	10	<2	25.02	<0.01	<1	2.16	2149	<0.01	<1	223	<5	<20	20	<10	<0.01	5	<20		
21	225	0.06	179	6		<5	10	38.9	6	7.66	<2	4.382	<0.01	4	6.64	5369	<0.01	5	33	<5	<20	48	<10	<0.01	12	<20		
22	55	2.83	<5	125		<5	1.12	0.9	130	7.37	<2	0.413	0.03	4	1.96	857	0.05	3	<5	5	<20	23	<10	0.6	179	<20		
22	228	1.58	<5	83		<5	1.31	<0.2	136	3.48	<2	0.698	0.02	2	1.34	542	0.07	3	<5	<5	<20	19	<10	0.32	82	<20		
23	50	0.21	47	3		<5	0.4	0.5	117	10	<2	0.15	0.03	2	0.14	575	0.02	<1	10	<5	<20	21	<10	<0.01	3	<20		
23	224	0.16	39	6		<5	1.49	<0.2	69	8.8	<2	0.167	0.02	3	0.29	1672	0.02	<1	8	<5	<20	68	<10	<0.01	3	<20		
24	47	0.1	653	5		<5	1.51	95.5	39	10	<2	36.38	0.06	<1	0.56	303	<0.01	<1	42	<5	<20	19	<10	<0.01	4	<20		
24	48	0.14	878	4		<5	2.19	124	62	10	<2	37.76	0.09	<1	1.16	666	<0.01	<1	49	<5	<20	28	<10	<0.01	7	<20		
24	222	0.09	427	3		<5	5.59	17.3	39	10	<2	5.551	0.06	2	2.89	1268	<0.01	<1	28	<5	<20	96	<10	<0.01	19	<20		
24	223	0.09	441	<1		<5	2.37	44.2	34	10	<2	18.437	0.05	<1	1.47	706	<0.01	<1	32	<5	<20	34	<10	<0.01	9	<20		
24	2622	0.03	782	10	<.5	<2	1.76	>100.0	19	>15.00	<10	40.8	0.01	<10	0.48	330	<.01		40	1		29		<.01	1	<10		
25	49	0.76	16	163		<5	3.95	0.6	186	2.27	<2	0.15	0.04	4	0.63	522	0.04	2	<5	8	<20	201	<10	<0.01	55	<20		
26	42	<0.01	198	7		<5	<0.01	59.9	16	7.24	<2	3.255	<0.01	<1	<0.01	50	<0.01	<1	54	<5	<20	25	<10	<0.01	3	<20		
26	43	<0.01	306	9		<5	0.16	95	9	6.36	<2	5.096	<0.01	<1	<0.01	73	<0.01	<1	113	<5	<20	38	<10	<0.01	3	<20		
26	46	<0.01	64	19		<5	<0.01	185.2	2	0.94	2	13.331	<0.01	<1	<0.01	49	<0.01	<1	92	<5	<20	67	<10	<0.01	1	<20		
26	218	0.01	58	28		<5	0.01	130.4	4	0.84	<2	5.406	<0.01	<1	<0.01	34	<0.01	<1	80	<5	<20	104	<10	<0.01	4	<20		
26	2621	<.01	134	10	<.5	<2	0.25	73	9	2.99	<10	4.4	<.01	<10	<.01	35	<.01		54	<1		46		<.01	3	30		
27	44	0.18	10	665		<5	9.06	2	80	2.19	<2	0.355	0.1	3	2.6	6484	0.02	3	<5	8	<20	414	<10	<0.01	15	<20		
27	219	0.14	<5	973		<5	4.23	0.4	106	1.03	<2	0.08	0.08	1	1.05	3118	<0.01	1	<5	<5	<20	191	<10	<0.01	10	<20		
28	45	1.24	33	478		<5	7.69	0.3	60	6.34	<2	0.134	0.44	5	1.41	1427	0.04	2	<5	11	<20	148	<10	<0.01	69	<20		

Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No	Sample No.	Location	Sample Type	Sample Size (ft.)	Sample Site	Sample Description	Au30 * ppb opt	Ag * ppm opt	Cu * ppm %	Pb * ppm %	Zn * ppm %	Mo ppm	Ni ppm	Co ppm
28	220	Castle Is Barite	G		OC	Fest sil green-gray sc w/ py	<5	<0.1	65	21	89	<1	19	13
28	221	Castle Is Barite	G		OC	Fest sil gs	<5	<0.1	81	6	173	<1	44	26
29	2626	Totem Bay, N of	G	0.3	RC	Sil , br rhyolite w/ py in br	<5	0.5	3	115	425	6	1	2
30	24	Duncan Canal area	Rep	3	OC	Fest marble	<5	<0.1	107	7	66	1	31	15
30	25	Duncan Canal area	Rep	0.4	OC	Fest qz & marble	<5	<0.1	104	5	59	1	48	15
30	26	Duncan Canal area	G	0.3	RC	Qz calc vn w/ sulf	<5	<0.1	3	11	16	1	20	2
30	210	Duncan Canal area	Rep	5	Oc	Fest ls & marble	<5	<0.1	73	7	42	1	17	7
31	2627	Lost Lake	C	1.2	OC	Sericite sc w/ lenses & bands of sl & py	210	>100.0	235	>10000	>10000	2	21	17
31	2628	Lost Lake	C	1.9	OC	Msv sulf w/ sl & py in fel sc	450	>100.0	370	>10000	>10000	1	33	14
31	2629	Lost Lake	C	1	OC	Sil msv sulf w/ py & sl	90	78	230	2150	>10000	<1	28	26
32	30	Helen S, shaft	Rep	1.5	OC	Qz vn w/ inclusions of gs w/ py	0.328 *	22.7	209	795	1042	2	13	3
32	31	Helen S, shaft	Rep	0.4	OC	Gs	41	1.7	191	47	314	2	64	24
32	32	Helen S, shaft	S	0.4	MD	Sil volc w/ sulf	82	38.9	54	7539	5.4 *	3	19	7
32	33	Helen S	C	2.3	TP	Qz vn	14	1.1	12	506	2870	2	7	4
32	34	Helen S	C	1.2	OC	Qz vn	15	2.9	8	442	337	3	15	1
32	35	Helen S	C		TP	Fest sil gs	30	2.4	116	585	995	2	19	18
32	36	Helen S	G		MD	Slightly sil gs w/ trace py	4248	1.6	570	86	258	2	17	31
32	37	Helen S	SS			Stream in gs to gs sc	<9	3	90	457	946	<1	22	47
32	38	Helen S	G		MD	Fest qz vn w/ sulf bands	120	53	60	1 *	8.5 *	<1	6	2
32	39	Helen S	G		MD	Fest qz vn w/ sulf bands	150	46.8	52	6811	6.3 *	1	10	1
32	40	Helen S	SS		MT	Sample of mine tailings	<9	16.5	135	1888	14330	3	20	18
32	41	Helen S	SS		MT	Sample of mine tailings	<9	12.3	111	927	9850	3	29	20
32	213	Helen S	G		MD	Qz	4536	2.6	50	283	491	2	13	<1
32	214	Helen S	G		MD	Gs	41	1.9	254	341	2471	1	52	26
32	215	Helen S	S		MD	Sulf	76	77	99	1 *	4 *	3	39	17
32	216	Helen S	Rep	6	TP	Qz vn	<5	1.4	239	295	513	1	5	2
32	217	Helen S	RC		TP	Slate & sc	58	3.3	573	629	945	2	9	34
32	2359	Helen S	G	0.5	RC	Qz vn w/ sulf	35	15.5	36	3175	18343	2	8	3
32	2623	Helen S	Rep	0.8	OC	Qz vn	10	1.8	10	500	330	1	4	<1
32	2624	Helen S	RC		MD	Msv sulf, py, sl	80	67	68	7200	>10000	2	21	13
32	9565	Helen S	C	0.9	OC	Qz vn & sil br zone in fest slate	132	1.783 *	64	1.09 *	12.8 *	2	6	5
32	9566	Helen S	C	2.6	OC	Qz vn & sil br zone in fest slate	48	15.8	53	1429	4942	<1	6	2
32	9700	Helen S	G		MD	Qz vn w/ sulf	75	2.128 *	39	1.74 *	7758	2	8	1
32	9569	Harvey Lake trail	SS			Soil sample taken @ surface	1208	0.8	106	69	133	2	10	7
33	9568	Harvey Lake trail	Rep	1.4	OC	Gs w/ dissem py	25	0.4	196	37	306	2	61	35
33	9591	Harvey Lake Trail	C	2.7	OC	Sc w/ thin bands of dissem sulf	29	0.8	340	62	131	2	72	42
33	9701	Harvey Ck	Rep	2.5	OC	Sil gs sc w/ sulf	20	0.5	174	99	145	7	66	25
34	9567	Harvey Lake	C	1.2	OC	Qz w/ calc & py	6	0.4	164	12	126	5	57	21
35	2381	Maid of Mexico	CC	1.3	UW	Qz vn w/ minor py	383	0.5	87	190	237	4	21	6
35	2382	Maid of Mexico	CC	0.8	UW	Dol	1462	0.5	194	42	112	1	46	30
35	2383	Maid of Mexico	CC	0.8	UW	Slate	11	<0.1	48	36	85	12	40	5
35	2384	Maid of Mexico	CC	0.8	UW	Qz vn in dol w/ minor py	30	3.2	69	1644	29	3	18	6
35	2385	Maid of Mexico	Rep	4.5	UW	Sheared dol w/ qz stringers & minor py	679	0.7	139	17	67	2	29	26
35	2386	Maid of Mexico	Rep		TP	Qz-calc vn w/ py	294	1	67	390	42	2	19	9
35	2387	Maid of Mexico	Rep	1.8	OC	Qz vn	<5	<0.1	55	30	34	2	14	5

Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No.	Sample No.	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Cr ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Na %	Nb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Te ppm	Ti %	V ppm	W ppm	Pt ppb	Pd ppb
28	220	0.4	9	552		<5	10	<0.2	24	4.04	<2	0.072	0.16	4	0.86	3537	0.01	1	<5	8	<20	324	<10	<0.01	39	<20		
28	221	1.01	<5	233		<5	5.32	0.4	82	7.97	<2	0.175	0.26	5	1.38	1661	0.05	<1	<5	19	<20	110	<10	<0.01	159	<20		
29	2626	0.29	150	30	<.5	<2	0.01	1	60	5.03	<10	1.1	0.16	30	<.01	30	0.03		<2	<1		2		<.01	1	<10		
30	24	0.71	36	90		<5	10	<0.2	76	4.93	<2	0.296	0.07	2	3.52	832	0.02	4	<5	18	<20	332	<10	<0.01	125	<20		
30	25	0.79	74	214		<5	10	<0.2	84	5.42	<2	0.09	0.05	4	4.39	1083	0.01	3	<5	14	<20	597	<10	<0.01	90	<20		
30	26	0.25	<5	468		<5	5.99	<0.2	165	1.38	<2	0.022	0.02	<1	3.1	573	0.01	3	<5	<5	<20	445	<10	<0.01	15	<20		
30	210	0.37	19	53		<5	10	<0.2	54	3.76	<2	0.434	0.05	2	4.63	713	0.02	4	10	10	<20	360	<10	<0.01	79	<20		
31	2627	0.14	34	10	<.5	<2	0.09	>100.0	123	8.85	10	>100	0.03	<10	0.08	880	<.01		144	4		<1		<.01	19	<10		
31	2628	0.08	84	10	<.5	<2	0.01	>100.0	87	10.9	10	>100	<.01	<10	<.01	175	<.01		138	<1		<1		<.01	1	<10		
31	2629	0.21	32	10	<.5	<2	0.03	>100.0	132	10.1	<10	>100	0.01	<10	0.02	545	<.01		44	1		<1		<.01	11	<10		
32	30	0.42	892	57		<5	0.82	14.3	237	2.64	<2	0.796	0.06	<1	0.3	162	0.01	<1	<5	<5	<20	4	<10	<0.01	19	<20		
32	31	4.73	81	153		<5	0.94	1.5	63	10	4	0.13	0.13	4	3.8	1170	0.01	3	<5	28	<20	6	<10	0.01	229	<20		
32	32	0.02	347	<1		<5	1.46	152.1	77	10	<2	22.06	<0.01	<1	0.02	957	<0.01	<1	107	<5	<20	11	<10	<0.01	<1	<20		
32	33	0.05	6	28		<5	0.32	13.4	229	1.16	<2	5.869	<0.01	<1	0.02	272	<0.01	<1	<5	<5	<20	6	<10	<0.01	5	<20		
32	34	0.04	<5	65		<5	0.02	0.4	283	1.31	<2	2.454	<0.01	<1	<0.01	107	<0.01	<1	<5	<5	<20	<1	<10	<0.01	12	<20		
32	35	1.65	13	70		<5	0.67	3.9	66	6.77	<2	4.008	0.7	5	0.54	733	0.02	<1	<5	17	<20	9	<10	0.13	166	<20		
32	36	2.98	1471	181		<5	5.83	4.7	47	10	5	0.216	0.12	6	2.08	1844	0.02	<1	<5	30	<20	115	<10	0.04	409	<20		
32	37	2.47	28	225		<5	0.55	3.2	19	8.36	<2	0.382	0.05	8	1.02	6093	0.08	6	<5	10	<20	17	<10	0.09	219	<20		
32	38	0.05	72	7		<5	0.25	350.6	162	3.93	<2	20.42	<0.01	<1	0.02	236	<0.01	<1	35	<5	<20	4	<10	<0.01	5	<20		
32	39	0.04	102	6		<5	0.07	273.4	169	5.97	<2	20.7	<0.01	<1	<0.01	129	<0.01	<1	45	<5	<20	2	<10	<0.01	3	<20		
32	40	0.65	371	69		<5	8.03	56.2	13	7.26	<2	5.256	0.11	8	1.03	3560	0.17	1	24	7	<20	78	<10	0.03	63	<20		
32	41	0.84	169	45		<5	4.1	41	26	7.8	<2	2.215	0.12	7	1.52	1796	0.26	1	14	9	<20	67	<10	0.04	74	<20		
32	213	0.11	317	34		<5	0.06	9.6	186	0.92	<2	0.323	0.01	<1	0.08	72	<0.01	<1	<5	<5	<20	1	<10	<0.01	7	<20		
32	214	3.44	33	61		<5	1.48	11.1	62	8.57	4	1.081	0.1	5	2.39	1044	0.02	4	<5	24	<20	12	<10	<0.01	195	<20		
32	215	0.14	709	<1		<5	2.92	105.4	52	10	<2	17.062	0.05	2	0.08	1774	<0.01	<1	159	<5	<20	17	<10	<0.01	12	<20		
32	216	0.27	<5	176		<5	0.32	1.9	170	1.31	<2	0.7	0.03	<1	0.12	316	0.01	<1	<5	<5	<20	6	<10	0.01	23	<20		
32	217	3.07	9	68		<5	1.7	4	19	10	<2	0.461	0.93	6	1.72	1684	0.01	1	<5	33	<20	29	<10	0.24	201	<20		
32	2359	0.03	51	14		<5	4.09	68.2	142	2.81	<2	4.769	0.01	1	0.02	1323	<0.01	<1	21	<5	<20	43	13	<0.01	1	<20		
32	2623	0.01	8	890	<.5	<2	0.1	0.5	300	2.27	<10	3.2	<.01	<10	<.01	415	<.01		<2	1		10		<.01	5	<10		
32	2624	0.01	540	10	<.5	<2	1.07	>100.0	31	>15.00	<10	9	<.01	<10	0.02	955	<.01		112	<1		11		<.01	1	<10		
32	9565	0.11	86	3		<5	3.68	534.2	74	5.45	<2	30.52	0.01	<1	0.06	823	<0.01	<1	46	<5	<20	22	35	<0.01	15	<20		
32	9566	0.14	73	43		<5	0.14	18.1	226	2.86	<2	3.65	0.06	2	<0.01	210	<0.01	<1	40	<5	<20	3	<10	<0.01	4	<20		
32	9700	0.05	68	12		<5	0.19	22.2	145	5.54	<2	5.084	0.02	<1	<0.01	239	<0.01	<1	47	<5	<20	19	<10	<0.01	<1	<20		
32	9569	1.98	42	78		<5	0.16	0.3	38	4.19	6	0.426	0.07	6	0.87	326	0.02	5	<5	7	<20	9	<10	0.05	89	<20		
33	9568	1.95	34	3		<5	0.36	0.4	167	15.77	<2	0.387	0.03	6	2.22	696	0.03	10	9	18	<20	5	<10	0.02	248	<20		
33	9691	2.1	20	13		<5	0.79	<0.2	160	11.74	<2	0.252	0.02	7	2.45	1122	0.03	13	<5	19	<20	10	<10	0.08	272	<20		
33	9701	1.37	25	21		<5	3.23	0.6	81	7.07	<2	0.38	0.2	8	2	1029	<0.01	6	<5	10	<20	49	<10	<0.01	99	<20		
34	9567	0.78	12	30		<5	7.06	0.2	58	6.63	<2	0.639	0.16	8	2.67	1499	0.01	5	<5	8	<20	134	<10	<0.01	70	<20		
35	2381	0.21	229	20		<5	3.25	11.5	187	1.57	<2	0.325	0.06	<1	0.38	288	<0.01	2	<5	<5	<20	40	<10	<0.01	16	<20		
35	2382	0.63	1303	53		<5	9.05	6.3	52	8.75	<2	0.251	0.24	3	2.09	1204	0.01	5	<5	9	<20	140	<10	<0.01	62	<20		
35	2383	0.28	64	33		11	28.09	1.8	19	1.93	<2	0.09	0.15	5	0.66	420	<0.01	6	<5	<5	<20	256	<10	<0.01	9	<20		
35	2384	0.19	<5	28		<5	3.37	2.8	202	2.02	<2	0.2	0.06	<1	0.5	316	<0.01	2	<5	<5	<20	40	<10	<0.01	20	<20		
35	2385	0.62	510	68		<5	8.03	2	43	6.93	<2	0.637	0.32	3	2.18	1126	0.01	3	<5	7	<20	113	<10	<0.01	33	<20		
35	2386	0.22	10	32		<5	2.26	1.7	223	1.45	<2	0.543	0.1	<1	0.47	257	<0.01	2	<5	<5	<20	26	<10	<0.01	13	<20		
35	2387	0.18	5	13		<5	0.15	0.8	340	0.83	<2	0.031	0.04	<1	0.07	214	<0.01	<1	<5	<5	<20	3	<10	<0.01	9	<20		

Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No.	Sample No.	Location	Sample Type	Sample Size (ft.)	Sample Site	Sample Description	Au30 ppb	* opt	Ag ppm	* opt	Cu ppm	* %	Pb ppm	* %	Zn ppm	* %	Mo ppm	Ni ppm	Co ppm
35	2388	Maid of Mexico	RC			Mill feed of dol & qz	2098		3.8		234		1358		693		3	39	24
35	2389	Maid of Mexico	S			Mill concentrate	1.02	*	2.622	*	981		4226		679		9	216	117
35	2390	Maid of Mexico	S			Mill concentrate	1.076	*	3.173	*	1224		2.05	*	746		10	201	113
35	2620	Maid of Mexico, #3 adit	S	1	MD	Qz vn w/ sulf	80		<.001		0.01		0.02		0.02		0.01	20	9
35	9575	Maid of Mexico	RG		MD	Qz-rich zone w/ fg sulf @ contact	646		0.5		314		98		317		10	59	20
36	2638	Charlie's Creek	G		OC	Sil msv py	<5		<.2		75		<1		26		18	21	11
37	9571	Harvey Lake, E of	Rep	1.8	OC	Fest sil sc	<5		0.2		151		6		119		5	51	38
38	9570	Mad Dog 2	C	0.7	OC	Weathered gs w/ msv banded sulf	676		16.6		322		115		7481		<1	2	11
38	9702	Mad Dog 2	S		MD	Sil msv sulf	2867		27.1		1512		78		2.9	*	2	5	49
39	2635	Hattie	G		RC	Qz vn	<5		<.2		11		<1		32		<1	11	5
40	27	Hattie	G		MD	Qz vn	<5		<0.1		7		3		16		2	16	7
40	2630	Hattie	C	5	OC	Qz vn	<5		0.4		6		76		186		2	6	2
40	2631	Hattie	C	5	OC	Qz vn	10		<.2		3		10		148		1	6	1
40	2632	Hattie	C	1.75	OC	Qz vn	<5		<.2		7		6		26		3	7	2
40	2633	Hattie	C	0.7	OC	Qz vn	<5		<.2		5		2		25		2	8	3
40	2634	Hattie	C	4.5	OC	Qz vn	<5		<.2		3		2		25		3	9	3
40	2636	Hattie	Rep	6	OC	Qz vn	<5		<.2		60		<1		19		2	10	6
41	28	Fortune	Rep	0.075	OC	Sulf band in sil gs	295		630.4		256		9.76	*	18.28	*	2	14	45
41	29	Fortune	Rep	2	OC	Fest gs w/ bands of fg sulf	1590		186		902		1.49	*	10.7	*	1	25	42
41	211	Fortune	G		OC	Sulf bands in sil gs	255		617		868		7.39	*	20.11	*	1	19	61
41	212	Fortune	Rep	3	OC	Qz w/ sulf	420		54		653		341		3951		2	4	10
42	142	E Porterfield Ck	G	0.1	FL	Qz boulder w/ po, cp	<5		4.5		2372		19		334		2	23	37
42	9601	Porterfield Ck, @ head	Rep	0.6	FL	Garnet gneiss w/ dissem sulf	<5		0.2		97		13		31		2	64	22
43	124	N Silver	S	0.45	OC	Qz sulf vn w/ sl, gn, cp, py, po	372		119.323	*	580		22.5	*	3.55	*	2	14	20
43	125	N Silver	C	3.3	OC	Shear zone w/ fault gouge, clay & sulf	46		46.8		130		2451		5245		10	80	20
43	126	N Silver	C	0.2	OC	Qz sulf vn w/ gn, sl, po	287		16.275	*	493		28.34	*	2.36	*	14	21	2
43	9586	N Silver	C	0.8	OC	Fault gouge w/ msv gn stringer & py	12		7.449	*	217		4.69	*	2.94	*	4	24	11
43	9587	N Silver	C	0.25	OC	Msv gn in fault	111		84.303	*	1104		48.61	*	2.86	*	1	9	5
43	9588	N Silver	S		TP	Sil contact zone w/ dissem sulf	40		34.9		62		5090		8480		1	5	<1
44	144	Groundhog Basin, N of	G	0.2	RC	Bt granite w/ mo in fractures	7		0.3		20		23		97		5392	12	2
45	101	Groundhog Basin, N of	G		RC	Fest granite w/sl, gn, po	6		12.4		146		8425		5649		2	3	<1
45	102	Groundhog Basin, N of	G		RC	Fest granite w/sl, gn, po	<5		6.3		188		4726		13340		2	2	<1
45	103	Groundhog Basin, N of	G		RC	Fest granite w/sl, gn, po	<5		8.5		199		5240		7231		2	2	1
46	265	Groundhog Basin, #1 adit	RC		MD	Msv sulf zone	66		6.4	*	1205		5.91	*	4.1	*	3	25	17
46	2610	Groundhog Basin, #1 adit	S		MD	Sil bands w/ po, py, sl, gn	20		<.001		4.85		5.06		9.14		0.13	17	13
46	99	Groundhog Basin, #1 adit	G	0.4	MD	Msv po, sl, gn, cp	16		7		872		152		16.03	*	<1	9	26
47	2639	Groundhog Basin	G		RC	Sil lens	15		82		900		>10000		>10000		2	7	34
48	2611	Groundhog Basin, #2 adit	S		UW	Sil volc w/ po, py, sl	<5		<.001		1.66		0.29		8.58		0.34	13	18
48	100	Groundhog Basin, #2 adit	C	1.5	MD	Dissem sulf in metamorphosed host	14		1.8		115		59		4500		2	7	8
48	264	Groundhog Basin, #2 adit	Rep	2.2	UW	Msv sulf zone	14		1.9	*	3100		1926		8.9	*	<1	10	16
48	98	Groundhog Basin, #4adit	G		UW	Msv fg po, gn, cp, sl	24		>50		1772		10.57	*	7.7	*	<1	7	6
48	263	Groundhog Basin	Rep		OC	Msv sulf zone	8		35.7		1185		368		12.3	*	<1	7	11
48	2612	Groundhog Basin, #3 adit	Rep		OC	Msv sl, po, py	5		0.001		0.71		0.04		5.1		0.15	7	22
49	122	N Silver	C	1.4	TP	Qz sulf zone w/ gossan, sl, gn	408		79.464	*	295		11	*	9.47	*	<1	3	7
49	123	N Silver	G		MD	Msv gn & sl	107		33.025	*	283		8.71	*	12.43	*	1	4	10

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Map No.	Sample No.	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Cr ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Na %	Nb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Te ppm	Ti %	V ppm	W ppm	Pt ppb	Pd ppb
35	2388	0.49	425	55		<5	6.8	32	165	6.32	<2	1.635	0.27	2	2.21	909	0.01	2	6	6	66	141	<10	<0.01	27	<20		
35	2389	1.22	4297	<1		<5	0.04	38.9	10	39.68	<2	50	0.04	<1	0.01	20	<0.01	<1	38	<5	<20	3	12	<0.01	<1	<20		
35	2390	1.16	2790	<1		<5	0.02	37.8	2	40.93	<2	50	0.04	<1	<0.01	13	<0.01	<1	26	<5	<20	4	12	<0.01	<1	<20		
35	2620	1.33	2	100	<.5	<2	5.31	1	181	4.22	<10	0.16	0.14	<10	1.65	870	<.01		<2	7		115		<.01	77	<10		
36	9575	0.39	<5	70		<5	5.07	5.9	166	4.68	<2	0.616	0.19	3	1.26	871	0.01	2	<5	<5	<20	117	<10	<0.01	19	<20		
36	2638	0.09	58	10	<.5	<2	4.75	<.5	35	>15.00	<10	1.81	0.01	<10	0.06	340	<.01		12	2		69		<.01	10	<10		
37	9571	3.26	22	5		<5	1.84	<0.2	116	15.5	3	0.261	0.09	3	3.05	1139	<0.01	6	<5	18	<20	18	<10	<0.01	198	<20		
38	9570	0.03	160	3		6	0.02	37.8	66	10.54	<2	<0.01	0.02	<1	<0.01	34	<0.01	<1	10	<5	<20	20	<10	0.02	2	<20		
38	9702	0.03	92	<1		9	0.02	144.6	54	23.21	<2	3.084	0.03	<1	<0.01	51	<0.01	<1	7	<5	<20	5	11	0.02	<1	<20		
39	2635	0.18	<2	10	<.5	<2	<.01	<.5	341	3.88	<10	0.64	<.01	<10	0.03	320	<.01		<2	12		<1		<.01	91	<10		
40	27	0.29	<5	41		<5	0.75	<0.2	230	1.72	<2	0.737	0.03	<1	0.26	361	<0.01	<1	<5	5	<20	15	<10	<0.01	21	<20		
40	2630	0.08	<2	40	<.5	<2	<.01	1.5	291	0.63	<10	0.35	<.01	<10	<.01	35	<.01		<2	1		<1		<.01	16	<10		
40	2631	0.11	6	30	<.5	<2	<.01	0.5	370	1.04	<10	1.12	0.01	<10	<.01	45	<.01		2	1		<1		<.01	19	<10		
40	2632	0.06	2	30	<.5	<2	<.01	<.5	261	0.84	<10	0.12	<.01	<10	0.01	50	<.01		<2	1		<1		<.01	17	<10		
40	2633	0.15	4	40	<.5	<2	<.01	<.5	433	0.97	<10	0.23	0.05	<10	0.01	50	<.01		<2	1		<1		<.01	18	<10		
40	2634	0.1	<2	10	<.5	<2	<.01	<.5	324	1.85	<10	2.36	<.01	<10	0.01	75	<.01		<2	3		<1		<.01	27	<10		
40	2636	0.11	<2	30	<.5	<2	0.99	<.5	245	1.74	<10	0.07	<.01	<10	0.4	326	<.01		<2	5		20		<.01	48	<10		
41	28	0.46	35	11		<5	0.29	1435.7	62	6.1	<2	50	0.06	1	0.18	748	0.03	<1	324	5	<20	17	17	<0.01	33	<20		
41	29	0.72	49	12		<5	0.54	774	53	9.05	<2	37.2	0.14	3	0.42	5348	0.03	<1	148	14	<20	15	<10	0.01	71	<20		
41	211	0.51	53	5		<5	0.27	1437.6	46	7.38	<2	50	0.06	2	0.26	1140	0.03	<1	642	6	<20	14	<10	<0.01	30	<20		
41	212	0.66	<5	159		<5	0.56	17	121	5.86	<2	1.969	0.06	5	0.38	3866	0.03	<1	21	12	<20	27	<10	0.01	25	<20		
42	142	0.05	<5	30		<5	0.03	3	251	6.31	<2	<0.01	0.02	<1	0.04	40	<0.01	<1	<5	<5	<20	2	<10	<0.01	<1	<20		
42	9601	4.82	<5	66		<5	4.22	<0.2	67	1.7	3	<0.01	0.03	<1	0.45	225	0.39	3	<5	<5	<20	122	<10	0.12	36	<20		
43	124	0.71	120	6		<5	1.75	291.7	72	17.75	<2	1.136	0.03	1	0.7	4351	<0.01	<1	176	<5	498	60	<10	<0.01	21	<20		
43	125	1.21	226	200		<5	0.26	63.5	147	5.83	<2	0.055	0.2	7	0.39	6521	<0.01	3	9	14	<20	9	<10	<0.01	85	<20		
43	126	0.74	1372	9		<5	0.79	228	100	8.14	<2	0.14	0.04	3	0.44	5142	<0.01	8	309	<5	129	47	<10	<0.01	171	<20		
43	9586	0.81	37	38		8	6.99	221.4	54	7.05	<2	0.076	0.14	7	0.62	14801	<0.01	3	61	<5	48	243	<10	<0.01	17	<20		
43	9587	0.32	38	5		6	2.97	284.8	31	8.92	<2	0.124	0.03	1	0.3	6280	<0.01	<1	887	<5	400	63	12	<0.01	5	<20		
43	9588	0.36	67	3		9	3.18	53	36	27.46	<2	0.021	0.03	<1	0.77	>20000	<0.01	<1	<5	<5	26	57	<10	<0.01	<1	<20		
44	144	1.25	<5	45		<5	0.76	0.2	168	2.04	<2	<0.01	0.4	59	0.25	175	0.1	4	<5	<5	<20	9	<10	0.01	23	<20		
45	101	0.58	45	14		<5	0.03	63.4	94	1.66	2	<0.01	0.4	4	<0.01	57	0.01	29	<5	<5	23	<1	<10	<0.01	<1	<20		
45	102	0.59	33	9		<5	0.01	109.7	55	4	<2	<0.01	0.38	17	<0.01	83	0.01	30	<5	<5	<20	<1	<10	<0.01	<1	26		
45	103	0.86	<5	10		<5	0.24	60.9	78	2.74	4	<0.01	0.45	7	<0.01	46	0.05	50	<5	<5	<20	2	<10	<0.01	<1	<20		
46	265	1.16	428	17		<5	0.25	391.7	41	19.05	<2	0.107	0.32	2	0.58	521	0.02	<1	104	<5	290	2	<10	0.05	59	59		
46	2610	1.65	310	<10	0.5	4	0.24	>100.0	66	14.15	<10	0.05	0.84	<10	0.69	955	0.03		56	7		5		0.14	66	10		
46	99	1.92	1487	8		<5	0.19	1040	13	24.38	4	0.06	0.17	1	1	718	<0.01	<1	<5	<5	30	2	14	0.02	34	326		
47	2639	0.67	202	10	<.5	64	0.01	>100.0	24	>15.00	10	0.34	0.17	<10	0.17	495	<.01		4	1		<1		0.01	9	<10		
48	2611	0.72	12	<10	<.5	138	0.21	>100.0	27	>15.00	<10	0.24	0.14	<10	0.4	315	<.01		6	2		7		0.06	22	10		
48	100	2.27	9	133		31	1.77	27.8	43	4.4	<2	0.155	0.64	3	1.01	813	0.16	5	<5	6	99	45	<10	0.16	82	<20		
48	264	1.24	150	18		133	0.33	714.7	16	21.84	<2	0.082	0.31	2	0.8	435	0.02	<1	<5	<5	83	7	13	0.08	36	144		
48	98	0.52	2508	15		<5	0.16	504.7	27	30.95	<2	0.229	0.26	1	0.13	456	<0.01	<1	55	<5	618	5	<10	<0.01	12	126		
48	263	0.45	3930	7		53	0.05	823.6	23	27.56	<2	0.036	0.17	<1	0.09	259	<0.01	<1	<5	<5	<20	1	20	<0.01	5	223		
48	2612	1.01	>10000	10	0.5	74	0.06	>100.0	60	>15.00	<10	0.03	0.41	<10	0.19	165	<.01		6	1		4		0.01	11	130		
49	122	0.95	80	12		<5	0.02	623.9	60	13.6	<2	0.303	0.08	1	0.44	5087	<0.01	<1	167	<5	338	5	18	<0.01	14	<20		
49	123	1.24	47	7		<5	0.21	903.1	87	8.07	<2	0.282	0.05	<1	0.66	6839	<0.01	<1	105	<5	155	2	24	<0.01	17	<20		

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Map No.	Sample No.	Location	Sample Type	Sample Size (ft.)	Sample Site	Sample Description	Au30 ppb	* opt	Ag ppm	* opt	Cu ppm	* %	Pb ppm	* %	Zn ppm	* %	Mo ppm	Ni ppm	Co ppm
49	9584	N Silver	Rep	4.9	TP	Gossan in fault br w/ sulf	33		4.842	*	379		6843		1.84	*	2	8	9
49	9585	N Silver	S		TP	Msv gn in fault	86		16.537	*	904		11.36	*	8.09	*	<1	6	19
50	120	N Silver	Rep	1	OC	Sil band w/ sulf	4345		11.5		31		778		391		3	4	3
50	121	N Silver	C	0.4	OC	Sil shear zone w/ gn	1165		517.822	*	205		39.75	*	3764		<1	1	4
50	2640	Whistle Pig adit	G		MD	Sil fel dike w/ sulf & mo	10		10.4		520		1200		1900		74	11	4
50	2641	Whistle Pig	S	0.2	OC	Mo & py blebs in sil host	35		7.5		46		3050		280		10	7	5
51	127	Groundhog Basin Cirque	G		FL	Silica rich fg volc w/ blebs of po, cp, sl	34		1.517	*	1896		2047		405		2	7	14
51	128	Groundhog Basin Cirque	G		RC	Msv sulf w/ po, sl, cp	299		42.1		2277		451		3.12	*	4	124	201
52	2637	Camp 6 area	G	1	OC	Fel dike w/ fest sulf clots	<5		25		470		50		149		6	3	7
52	130	Cu Zone	C	1	OC	Sil fest gneiss w/cp in fractures	15		6.172	*	17115		752		7077		5	64	73
52	131	Cu Zone	S	0.4	RC	Msv cp in sil gneiss	2812		16.065	*	8.08	*	234		6980		3	122	310
52	132	Cu Zone	S	0.05	RC	Band of sl, gn	111		30.8		3204		164		2.51	*	4	7	28
52	133	Cu Zone	C	0.5	OC	Gossan w/ cp	55		19.652	*	2.24	*	1.71	*	2.65	*	<1	63	495
52	9592	Cu Zone	S		TP	Sil contact w/ cp, po, sl	179		12.1		1065		69		282		2	5	6
52	9593	Cu Zone	C	0.45	OC	Sil contact w/ cp, py	10		19.2		658		1190		12944		10	20	9
52	9594	Cu Zone	C	0.7	OC	Sil contact w/ py, cp	17		14.4		1847		151		7808		8	65	95
52	9595	Cu Zona	C	0.5	OC	Sil contact w/ cp, py	30		2.094	*	7415		41		906		10	36	39
52	9596	Cu Zone	C	0.2	OC	Lens of cp & sl in gneiss	4680		16.905	*	7.39	*	225		5613		8	18	166
53	2642	Marsha Peak	Rep	0.4	TP	Sulf along a shear in trench	15		>100.0		>10000		600		>10000		10	2	59
53	2643	Marsha Peak	Rep	0.5	OC	Vuggy, fest, sil band in sc & gneiss	<5		12		275		870		540		6	4	1
54	134	E Marsha Peak	S	0.3	OC	Irregular Vuggy qz vn w/ hnbd, sl, gn	7		6.8		518		3980		7157		6	13	10
54	136	E Marsha Peak	G	0.3	OC	Vuggy fest qz vn w/ sl	17		12.9		655		932		836		12	8	3
54	9597	E Marsha Peak	S		OC	Gneiss w/ mo	<5		1.2		89		15		72		17	13	2
55	116	Lower Nelson Nunatak	Rep	0.07	OC	Qz sulf vn w/ sl, gn, cp, py	15		42		624		3.73	*	3.56	*	10	22	44
55	117	Lower Nelson Nunatak	Rep	0.4	FL	Msv sulf boulder w/ sl, gn, cp, po	29		36.8		2358		8.21	*	5.88	*	3	7	49
55	118	Lower Nelson Nunatak	Rep	1	FL	Sil sulf zone w/ sl, cp, gn, po & qz bands	106		2.642	*	8394		4692		15.46	*	14	13	82
55	119	Lower Nelson Nunatak	Rep	0.5	FL	Msv cg sl w/ cp & po	24		8.426	*	15115		6202		29.95	*	3	4	138
55	9580	Lower Nelson Nunatak	Rep	0.8	FL	Sil gneissic metaseds w/ py stringers	902		3.4		24		155		473		4	15	8
55	9581	Lower Nelson Nunatak	Rep	0.5	FL	Sil gneissic metaseds w/ sl, cp, gn	93		44.9		3451		2245		12.03	*	49	9	62
55	9582	Lower Nelson Nunatak	Rep	0.2	FL	Msv sl w/ minor cp	17		2.867	*	14245		273		13.83	*	14	36	87
55	9583	Lower Nelson Nunatak	Rep	0.4	FL	Sil gneissic metaseds w/ blebs of msv sl, g	<5		45.4		1393		6.06	*	19.94	*	3	23	41
56	95	Huff Prospect area	G		OC	Fest qz vn w/ sparse po	<5		0.2		28		28		38		<1	5	4
57	96	Huff Prospect area	C	0.4	OC	Fest qz /gn vn w/ po & py	2166		228.4	*	309		6.24	*	595		2	4	<1
57	97	Huff Prospect area	G	0.7	OC	Qz /calc br zone w/ sulf	39		40.1		49		960		945		5	<1	<1
57	261	Huff Prospect	C	5.2	OC	Qz vn	<5		<0.1		3		19		12		<1	3	<1
57	262	Huff Prospect	Rep	2.6	OC	Qz vn	<5		0.4		7		18		23		<1	4	<1
58	92	Huff Prospect	G	0.6	RC	Gneissic metaseds w/ bt, qz, po, chl	<5		0.9		88		274		629		9	41	9
58	93	Huff Prospect area	Rep	0.2	OC	Granular py lens in marble & calcsilicates	212		1.3		142		83		84		3	28	22
59	90	Huff Prospect	G	5	OC	Msv band of gn, sl, po in marble	<5		46.7		2688		3.28	*	7.3	*	2	10	1
59	91	Huff Prospect	Rep	1.4	OC	Msv band of gn, sl, po in marble	<5		>50		6412		11.18	*	7.1	*	<1	17	8
59	254	Huff Prospect	Rep	2.7	OC	msv sulf layer in ls and marble	<5		4.6	*	7330		15.71	*	9.1	*	<1	5	<1
59	255	Huff Prospect	Rep	7	OC	msv sulf in marble	<5		2.9	*	6212		20.08	*	6.8	*	<1	4	4
59	129	Nelson Glacier, E Skarn	Rep	0.65	FL	Msv gn, sl, py, po w/ qz & calc	71		5.693	*	4700		7.8	*	10.39	*	43	10	13
59	9589	Nelson Glacier, @ toe	Rep	0.5	OC	Msv py & grey sulf in qz br	359		12		328		624		2491		<1	28	54
59	9590	Nelson Glacier, @ toe	Rep	0.5	FL	Qz br w/ gn, py, sl	35		7.085	*	1273		1.63	*	18708		17	18	14

Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No.	Sample No.	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Cr ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Na %	Nb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Te ppm	Ti %	V ppm	W ppm	Pt ppb	Pd ppb
49	9584	1.39	63	14		<5	0.03	124.8	131	13.25	<2	0.077	0.12	2	0.62	3506	<0.01	<1	11	<5	38	1	<10	<0.01	12	<20		
49	9585	0.66	123	<1		7	0.08	499.7	62	21.67	<2	0.168	0.02	<1	0.37	2608	<0.01	<1	64	<5	92	1	<10	<0.01	1	<20		
50	120	1.6	770	49		<5	0.89	6.7	127	2.68	14	<0.01	0.7	5	0.2	225	<0.01	2	8	<5	<20	6	<10	<0.01	36	<20		
50	121	0.15	1534	10		<5	0.01	32.3	63	3.36	<2	1.159	0.08	1	0.02	92	<0.01	<1	648	<5	1614	2	<10	<0.01	2	<20		
50	2640	0.45	94	30	<.5	<2	0.15	10.5	265	1.99	<10	0.03	0.1	<10	0.16	260	<.01		<2	2		4		<.01	48	<10		
50	2641	0.66	>10000	70	0.5	<2	0.01	2	292	4.22	<10	0.01	0.26	<10	0.03	50	<.01		16	1		3		<.01	34	<10		
51	127	0.52	868	97		60	0.04	6.9	153	1.21	<2	<0.01	0.33	6	0.05	151	0.01	5	<5	<5	28	4	<10	<0.01	8	<20		
51	128	2.17	9	8		431	0.3	225.1	78	31.7	<2	0.026	0.46	87	1.22	647	0.01	<1	<5	7	69	10	<10	0.02	83	<20		
52	2637	1.41	14	20	1.5	364	0.03	<.5	100	3.87	10	0.02	0.16	<10	0.31	290	0.07		<2	<1		3		<.01	13	<10		
52	130	2.55	63	18		177	0.78	44.4	169	8.68	4	0.018	0.3	4	0.88	2743	0.02	7	<5	6	487	27	<10	0.01	83	<20		
52	131	0.74	171	12		529	0.21	63.4	90	17.45	<2	0.023	0.31	2	0.09	299	<0.01	20	<5	<5	283	12	<10	<0.01	<1	<20		
52	132	0.86	>10000	37		56	0.01	346.6	121	3.19	<2	0.021	0.39	1	0.09	193	<0.01	5	<5	<5	52	<1	17	<0.01	2	<20		
52	133	5.14	1195	33		534	0.68	120.3	31	21.95	12	0.049	0.47	2	1.29	6367	<0.01	5	<5	7	1208	40	<10	<0.01	87	<20		
52	9592	0.95	9	40		22	0.07	1.9	119	1.57	3	<0.01	0.4	6	0.1	257	0.01	5	<5	<5	20	3	<10	<0.01	3	<20		
52	9593	2.56	<5	26		15	2.35	84.2	140	5.29	6	0.016	0.32	5	0.93	1998	0.03	4	<5	<5	37	15	<10	0.01	47	<20		
52	9594	1.59	7	4		45	0.35	66.6	158	14.44	3	0.014	0.14	8	1.07	380	<0.01	1	<5	6	52	4	<10	<0.01	57	<20		
52	9595	1.62	57	14		14	0.42	7.8	287	4.7	4	<0.01	0.17	10	0.37	751	<0.01	5	<5	6	37	5	<10	0.02	72	<20		
52	9596	3.75	322	37		713	3.66	29.1	19	24.52	4	0.038	1.15	2	0.91	557	0.17	13	<5	9	128	28	<10	0.04	85	<20		
53	2642	2.78	34	30	2	410	0.51	>100.0	32	4.96	10	0.08	1.19	<10	0.32	990	<.01		2	2		18		<.01	43	<10		
53	2643	0.96	92	30	1.5	8	<.01	3	372	3.73	<10	0.01	0.19	<10	0.15	300	<.01		<2	1		1		<.01	23	<10		
54	134	2.07	22	115		<5	1.83	54.5	270	4.07	3	<0.01	0.62	2	0.71	1649	0.01	6	<5	6	23	18	<10	0.01	79	<20		
54	135	0.96	38	8		<5	0.1	5.2	250	2.82	2	0.024	0.13	4	0.21	686	<0.01	2	<5	<5	44	1	<10	<0.01	30	<20		
54	9597	0.74	13	51		6	0.05	<0.2	236	2.1	<2	<0.01	0.27	6	0.26	125	0.02	4	<5	<5	<20	2	<10	<0.01	83	<20		
55	116	1.23	10	14		<5	0.52	270	75	9.99	<2	1.252	0.11	3	0.6	2092	0.02	2	23	<5	<20	11	10	0.05	61	<20		
55	117	0.43	79	1		<5	0.69	374.4	37	31.9	<2	0.282	0.06	2	0.17	2179	<0.01	<1	15	<5	82	6	<10	<0.01	<1	<20		
55	118	0.65	647	1		10	1.59	1289.9	88	6.56	<2	0.806	0.01	<1	0.66	2605	0.01	2	14	<5	498	13	26	<0.01	18	<20		
55	119	0.66	19	2		153	0.09	2000	64	12.08	<2	1.375	0.02	<1	0.3	2723	<0.01	2	<5	<5	131	2	30	<0.01	11	<20		
55	9580	1.63	1470	22		<5	1.09	13.4	135	8.15	11	<0.01	0.72	4	0.44	494	<0.01	2	45	<5	43	7	<10	<0.01	43	62		
55	9581	0.9	173	4		23	2.49	1039.4	140	5.98	4	0.086	0.05	<1	0.91	2416	0.01	3	8	<5	119	20	21	<0.01	26	<20		
55	9582	3.41	14	33		42	3.66	1180.1	72	11.98	3	0.089	0.71	6	0.64	2993	<0.01	7	<5	<5	328	117	19	<0.01	101	<20		
55	9583	1.68	13	13		24	0.07	1243.2	44	13.06	<2	0.105	0.07	<1	0.56	2408	<0.01	<1	12	<5	47	2	22	<0.01	13	<20		
56	95	0.47	<5	46		<5	0.06	0.2	131	1.22	<2	<0.01	0.08	<1	0.24	103	0.05	<1	<5	<5	<20	8	<10	0.03	26	<20		
57	96	0.26	2440	35		<5	0.1	2	127	8.64	<2	0.148	0.1	1	0.03	207	0.01	<1	75	<5	1377	15	<10	<0.01	22	<20		
57	97	0.17	438	13		<5	24.18	4.7	10	2.74	<2	<0.01	0.01	5	0.9	>20000	<0.01	3	<5	<5	<20	867	<10	<0.01	<1	<20		
57	261	0.17	<5	64		<5	0.05	<0.2	43	0.17	<2	<0.01	0.05	<1	0.02	74	0.05	2	<5	<5	<20	20	<10	<0.01	<1	<20		
57	262	0.18	29	19		<5	0.16	<0.2	166	0.3	<2	<0.01	0.02	2	0.06	345	<0.01	1	<5	<5	<20	4	<10	<0.01	2	<20		
58	92	1.78	<5	44		<5	0.86	5.5	124	3.74	<2	0.019	0.4	4	1.09	549	0.09	3	<5	10	<20	35	<10	0.1	133	<20		
58	93	2.28	63	16		<5	2.02	0.4	106	13.81	<2	0.116	0.34	1	1.34	1090	0.04	<1	66	20	<20	64	<10	<0.01	140	<20		
59	90	0.59	11	<1		<5	0.1	488.9	37	39.82	<2	0.094	<0.01	<1	0.59	813	<0.01	<1	<5	<5	182	4	<10	<0.01	19	125		
59	91	0.18	8	4		<5	0.76	382.9	11	35.27	<2	0.063	0.04	<1	0.14	963	<0.01	<1	64	<5	122	9	14	<0.01	8	98		
59	254	0.14	6	4		<5	0.02	525.9	<1	34.39	<2	0.205	0.02	<1	0.08	571	<0.01	<1	35	<5	<20	2	<10	<0.01	7	127		
59	255	0.41	<5	37		<5	2.28	366.1	13	26.16	<2	0.071	0.06	<1	0.18	1156	<0.01	<1	23	<5	22	52	16	<0.01	72	106		
59	129	0.26	2837	9		58	0.66	841.2	137	19.3	<2	0.068	0.06	<1	0.1	2359	<0.01	<1	42	<5	879	16	27	<0.01	5	<20		
59	9589	0.13	702	3		5	0.1	41.7	147	27.75	<2	0.089	0.06	<1	0.06	206	<0.01	<1	10	<5	21	10	<10	<0.01	<1	<20		
59	9590	0.62	70	23		<5	0.2	126	209	6.61	<2	<0.01	0.15	3	0.22	822	<0.01	<1	11	<5	123	5	<10	<0.01	17	<20		

Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No.	Sample No.	Location	Sample Type	Sample Size (ft.)	Sample Site	Sample Description	Au30 ppb	* opt	Ag ppm	* opt	Cu ppm	* %	Pb ppm	* %	Zn ppm	* %	Mo ppm	Ni ppm	Co ppm
60	256	Huff Prospect area	Rep	4	OC	Marble w/ dissem sulf	<5		1		152		691		456		8	64	22
61	257	Huff Prospect area	Rep	1.7	OC	Irregular qz vn in heavily fest marble	<5		0.2		17		60		60		<1	4	<1
61	258	Huff Prospect area	Rep	2	OC	Fest marble w/ sulf	<5		0.6		90		354		261		8	41	11
62	259	Huff Prospect area	RC	1	OC	Alt intermediate int w/ fg dissem po	<5		<0.1		100		25		34		<1	38	29
63	143	Nelson Glacier, SW side	C	0.4	OC	Qz br zone w/ gneiss, sulf	<5		1		36		238		621		10	25	5
63	9602	W Ridge, Nelson Glacier	C	0.5	OC	Vuggy qz vn w/ py, gn, cp, sl	9		11.8		442		2075		2057		12	11	3
63	9603	W Ridge, Nelson Glacier	C	0.2	OC	Msv sulf in vuggy qz shear zone	94		4.387	*	626		2.7	*	9577		30	22	23
64	2608	Glacier Basin	S	1	OC	Lenses of sl, gn, py in sil volc	<5		0.001		3.97		4.64		7.9		0.05	21	52
64	2609	Glacier Basin	Rep	2	OC	Gn in sil volc	<5		0.001		7.98		33.4		4.32		0.86	3	12
65	2613	Lake Prospect, #2 adit	S		MD	Sil meta host w/ gn, sl, cp, py	<5		0.001		4.73		10.5		6.6		0.13	18	19
66	2644	Berg Basin	G	0.4	FL	Qz vn w/ blebs of sl, gn & py	10		75		530		>10000		>10000		20	14	26
67	5	Elephant Nose, E of	Rep	1	OC	Irregular qz vn	<5		<0.1		19		8		7		4	21	2
67	6	Elephant Nose, E of	C	0.7	OC	Qz vn w/ ml	<5		<0.1		6		<2		2		2	10	<1
67	7	Elephant Nose, E of	SS			Stream in slate & granite float	<9		0.2		122		8		127		1	20	22
67	203	Elephant Nose, E of	Rep	2.5	OC	Qz vn	<5		0.6		18		75		59		3	12	3
68	1	Elephant Nose, E of	Rep	2	RC	Fest qz vn	<5		<0.1		5		23		6		2	15	<1
68	2	Elephant Nose, E of	C	1.5	OC	Qz vn	<5		<0.1		22		<2		2		1	7	<1
68	3	Elephant Nose, E of	SC	6	OC	Qz vn	<5		<0.1		14		<2		6		3	17	1
68	4	Elephant Nose, E of	G	0.5	OC	Qz , cal, sericite lens in vn w/ limonite, py	<5		<0.1		46		4		18		3	18	5
68	201	Elephant Nose	C	1.5	OC	Qz vn	<5		0.2		7		11		16		2	7	<1
68	202	Elephant Nose	RC	10	OC	Irregular qz lenses	<5		<0.1		7		6		9		2	14	<1
69	8	Exchange	Rep	2	OC	Fel dike w/ py & gn adj to qz vn	35		6.5		10		265		174		3	13	6
69	9	Exchange	Rep	3	OC	Qz & fel dike w/ py & sparse gn	131		18		23		632		88		2	12	7
69	10	Exchange, adit	Rep	3.2	UW	Qz vn w/ sulf	532		58		9		2660		204		2	8	9
69	11	Exchange, adit	SC	3	UW	Qz vn	<5		0.3		4		11		5		2	8	<1
69	204	Exchange, adit	Rep	6.5	OC	Fest qz vn	<5		0.1		15		13		27		2	7	1
69	206	Exchange, adit	RC	5	OC	Qz vn	923		26.8		8		944		8		2	9	<1
69	12	Exchange	S	0.3	UW	Sulf rich band in qz vn w/ py & gn	30		5.9		23		253		68		<1	2	5
69	13	Exchange	S	0.3	RC	Qz vn w/ py & gn @ contact w/ dike	89		11		9		381		56		2	9	3
69	14	Exchange	SS			Stream in granite porph float	<9		0.4		6		22		65		1	7	7
69	205	Exchange	RC	5	OC	Qz vn	43		8		6		346		7		2	14	1
69	2618	Wedge Point	Rep	1.3	OC	Qz vn w/ sparse py	<5		0.001		0.01		0.01		0.02		<.01	4	<1
69	2619	Wedge Point	S		RC	Hn slate w/ py	<5		0.001		0.02		0.01		0.02		0.01	48	23
70	63	Sunrise 1&2	SS			Stream in black gray slate	<9		<0.1		9		9		72		<1	16	5
70	64	Sunrise 1&2	SS			Stream in black gray slate	<9		<0.1		10		11		82		1	18	8
70	65	Sunrise 1&2	SS			Stream in black gray slate	<9		<0.1		8		8		71		<1	16	6
71	17	Frenchie, adit	C	5.5	UW	Sil sulf band w/ sl & py	1204		12.1		5453		1736		3.6	*	29	7	<1
71	18	Frenchie, adit	C	5	OC	Sil sulf band w/ sl & py	260		7.8		1619		3213		4.9	*	20	9	<1
71	207	Frenchie, adit	C	5.5	OC	Py	728		8.5		2600		805		8882		29	13	<1
71	2616	Frenchie, adit	C	5	OC	fg msv sulf w/ carbonate & silica	835		0.004		0.33		0.06		1.4		0.23	8	2
71	2617	Frenchie, adit	SC	6	OC	Msv sulf	295		0.002		0.27		0.18		2.38		0.13	7	3
72	15	Hydro Pit	C	0.8	OC	Fest sil sulf band w/ sl & py	89		14.8		1215		1960		4	*	4	13	26
72	16	Hydro Pit	C	1	OC	Fest sil sulf band	108		22.1		3629		2856		3.7	*	38	28	27
72	2625	Hydro Pit	G	0.4	OC	Sil msv sulf w/ sl, py, cp	180		16.7		870		3000		>10000		9	18	44
73	19	Zarembo Is Fluorite	G	0.3	OC	Geode	<5		<0.1		20		28		172		2	7	2

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Map No.	Sample No.	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Cr ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Na %	Nb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Te ppm	Ti %	V ppm	W ppm	Pt ppb	Pd ppb
60	256	2.38	<5	37		<5	2.58	3.6	29	4.82	2	<0.01	0.08	6	0.45	108	0.18	3	<5	<5	<20	73	<10	0.04	28	<20		
61	257	0.37	<5	38		<5	0.07	0.3	54	0.79	<2	<0.01	0.14	8	0.2	152	0.04	2	<5	<5	<20	4	<10	0.04	20	<20		
61	258	2.52	<5	84		<5	0.83	2	129	4.71	<2	<0.01	0.91	2	1.37	871	0.22	5	<5	14	<20	54	<10	0.26	197	<20		
62	259	0.59	<5	87		<5	0.58	0.2	22	3.46	<2	<0.01	0.05	<1	0.57	198	0.08	<1	<5	6	<20	3	<10	0.1	65	<20		
63	143	0.89	11	31		<5	0.5	4.2	223	1.58	<2	<0.01	0.16	5	0.55	1401	<0.01	6	<5	<5	<20	17	<10	<0.01	92	<20		
63	9602	0.49	217	14		<5	0.09	16.4	243	1.41	<2	<0.01	0.11	1	0.3	416	<0.01	1	<5	<5	<20	4	<10	<0.01	15	<20		
63	9603	2.01	8363	12		<5	4.82	95.9	57	15.22	<2	0.026	0.05	2	1.78	5741	<0.01	5	16	<5	20	172	<10	<0.01	108	<20		
64	2608	3.08	4	30	22.5	230	3.69	>100.0	103	4.16	<10	0.08	1.42	<10	0.48	2670	0.74		6	1		114		<.01	41	10		
64	2609	0.56	4	30	7.5	16	0.46	>100.0	24	5.03	<10	0.01	0.07	10	0.07	850	0.07		140	1		32		0.03	17	10		
65	2613	2.12	42	10	<.5	24	3.24	>100.0	78	6.38	<10	0.19	0.13	<10	0.81	4440	<.01		64	3		122		0.01	81	<10		
66	2644	0.27	1060	20	<.5	<2	0.02	>100.0	206	4.55	<10	0.05	0.09	<10	0.06	245	<.01		16	<1		<1		<.01	17	<10		
67	5	0.1	<5	4		<5	0.22	<0.2	312	0.67	<2	<0.01	<0.01	<1	0.07	93	0.01	<1	<5	<5	<20	24	<10	<0.01	3	<20		
67	6	0.02	<5	3		<5	0.13	<0.2	363	0.46	<2	<0.01	<0.01	<1	<0.01	64	<0.01	<1	<5	<5	<20	16	<10	<0.01	<1	<20		
67	7	2.42	6	141		<5	0.79	0.3	18	4.6	<2	0.114	0.35	9	1.25	1542	0.11	6	<5	<5	<20	67	<10	0.14	74	<20		
67	203	0.27	<5	24		<5	1.11	0.2	191	1.1	<2	0.022	0.01	2	0.28	178	0.04	<1	<5	<5	<20	94	<10	<0.01	16	<20		
68	1	0.04	<5	3		<5	0.14	<0.2	254	0.46	<2	<0.01	<0.01	<1	0.01	70	<0.01	<1	<5	<5	<20	11	<10	<0.01	1	<20		
68	2	0.02	<5	2		<5	0.02	<0.2	261	0.34	<2	<0.01	<0.01	<1	<0.01	33	<0.01	<1	<5	<5	<20	4	<10	<0.01	<1	<20		
68	3	0.15	<5	20		<5	0.25	<0.2	261	0.58	<2	<0.01	0.05	<1	0.04	100	0.02	<1	<5	<5	<20	21	<10	<0.01	2	<20		
68	4	0.4	<5	32		<5	1.06	0.2	214	1.32	<2	0.014	0.07	7	0.17	316	0.04	<1	<5	<5	<20	75	<10	<0.01	7	<20		
68	201	0.02	<5	57		<5	0.03	<0.2	248	0.31	<2	0.014	<0.01	<1	<0.01	41	<0.01	<1	<5	<5	<20	3	<10	<0.01	3	<20		
68	202	0.02	<5	36		<5	<0.01	<0.2	281	0.3	<2	<0.01	<0.01	<1	<0.01	29	<0.01	<1	<5	<5	<20	3	<10	<0.01	2	<20		
69	8	0.38	<5	55		10	3.05	0.7	177	3.29	<2	0.276	0.25	3	1.22	947	0.04	1	<5	7	<20	551	<10	<0.01	23	<20		
69	9	0.23	<5	33		28	2.05	0.8	178	3	<2	0.153	0.14	2	0.7	856	0.05	<1	6	<5	<20	323	<10	<0.01	13	<20		
69	10	0.49	<5	34		71	4.07	1.2	96	3.76	<2	0.313	0.13	2	1.43	1364	0.04	<1	<5	7	<20	573	<10	<0.01	21	<20		
69	11	0.04	<5	19		<5	0.25	<0.2	307	0.4	<2	0.014	0.01	<1	0.03	111	0.01	<1	<5	<5	<20	19	<10	<0.01	1	<20		
69	204	0.19	<5	54		<5	1.3	<0.2	242	1.06	<2	0.13	0.11	5	0.19	460	0.05	<1	<5	<5	<20	133	<10	<0.01	5	<20		
69	206	0.06	<5	20		37	0.04	<0.2	312	0.48	<2	0.065	<0.01	<1	0.03	88	0.01	<1	<5	<5	<20	5	<10	<0.01	1	<20		
69	12	0.46	<5	67		6	3.79	0.5	58	3.28	<2	0.184	0.24	5	0.48	952	0.06	<1	<5	<5	<20	318	<10	<0.01	8	<20		
69	13	0.14	<5	17		14	0.74	0.4	266	1.52	<2	0.096	0.06	<1	0.23	278	0.04	<1	<5	<5	<20	117	<10	<0.01	10	<20		
69	14	1.07	<5	83		<5	0.4	<0.2	15	2.97	<2	0.103	0.18	6	0.5	1460	0.03	2	<5	<5	<20	37	<10	0.08	59	<20		
69	205	0.03	<5	16		14	0.01	<0.2	221	0.48	<2	0.046	<0.01	<1	0.02	43	<0.01	<1	<5	<5	<20	5	<10	<0.01	1	<20		
69	2618	0.41	10	1440	<.5	<2	0.09	0.5	178	0.74	<10	0.01	0.21	<10	0.05	175	0.12		<2	<1		21		0.01	4	<10		
69	2619	1.8	2	160	<.5	<2	1.02	0.8	80	4.72	<10	0.01	0.22	<10	1.17	1135	0.08		<2	1		34		0.13	44	<10		
70	63	1.79	<5	119		<5	0.96	<0.2	198	2.46	<2	0.06	0.27	11	0.73	614	0.16	7	<5	<5	<20	122	<10	0.14	56	<20	<9	<9
70	64	1.8	<5	123		<5	0.56	<0.2	36	2.64	<2	0.051	0.16	7	0.96	660	0.03	4	<5	<5	<20	48	<10	0.13	68	<20	<9	<9
70	65	1.62	<5	85		<5	0.52	<0.2	28	2.43	<2	0.045	0.15	7	0.83	547	0.03	4	<5	<5	<20	43	<10	0.12	59	<20	<9	<9
71	17	0.12	468	13		5	0.87	99.1	29	10	<2	1.883	<0.01	<1	0.11	276	<0.01	<1	16	<5	<20	16	<10	<0.01	4	<20		
71	18	0.35	952	40		<5	0.06	168.9	37	8.08	<2	0.904	0.05	<1	0.14	90	<0.01	<1	7	<5	<20	19	<10	<0.01	6	<20		
71	207	0.53	290	11		<5	3.17	24	64	10	<2	0.817	0.21	1	0.3	518	0.02	<1	8	<5	<20	41	<10	<0.01	18	<20		
71	2616	0.39	488	50	<.5	2	0.88	39.5	99	14.1	<10	1.05	0.14	<10	0.21	225	<.01		12	<1		18		<.01	10	<10		
71	2617	0.81	1010	20	<.5	<2	0.25	73	69	8.06	<10	0.57	0.18	<10	0.43	200	<.01		12	<1		22		<.01	14	<10		
72	15	0.3	<5	24		<5	1.05	130.6	38	10	<2	0.079	0.04	<1	0.12	876	<0.01	<1	<5	<5	<20	16	<10	0.02	32	<20		
72	16	2.08	10	46		8	0.04	112.3	56	10	5	0.089	0.62	<1	0.83	272	0.03	<1	<5	<5	<20	5	<10	<0.01	13	<20		
72	2625	0.21	10	10	0.5	<2	1.09	>100.0	35	11.05	<10	0.06	<.01	<10	0.04	805	<.01		<2	<1		15		<.01	34	<10		
73	19	0.85	<5	1114		<5	0.79	0.4	166	1.47	3	<0.01	0.22	38	0.33	178	0.12	<1	<5	<5	<20	24	<10	<0.01	5	<20		

Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No.	Sample No.	Location	Sample Type	Sample Size (ft.)	Sample Site	Sample Description	Au30 * ppb opt	Ag * ppm opt	Cu * ppm %	Pb * ppm %	Zn * ppm %	Mo ppm	Ni ppm	Co ppm
73	20	Zarembo Is Fluorite	G	0.3	OC	Geode	<5	<0.1	12	23	113	2	11	1
73	21	Zarembo Is Fluorite	G	0.1	RC	Fluorite vn in basalt	201	0.8	6	14	69	2	3	<1
73	22	Zarembo Is Fluorite	C	3	OC	Sil gray-green banded volc	<5	<0.1	4	12	36	1	10	2
73	23	Zarembo Is Fluorite	Rep	10	OC	Basalt	<5	<0.1	40	6	113	3	51	29
73	208	Zarembo Is Fluorite	G		RC	Geodes	<5	0.1	8	19	44	1	6	2
73	209	Zarembo Is Fluorite	G		RC	Geodes	<5	<0.1	10	18	55	2	11	2
74	94	Zarembo Is Fluorite	SS			Di & metaseds float	<5	0.2	26	25	108	3	48	47
74	260	Obidian Prospect	RC		FL	Qz di boulder	<5	<0.1	5	36	70	<1	4	3
75	76	Salamander Ck, pit	G	0.3	RC	Sil metaseds w/ po & cp	<5	0.6	227	6	41	4	23	13
75	77	Salamander Ck, pit	G	0.3	RC	Fest sil metased w/ po, bt, muscovite	<5	0.4	64	5	25	4	46	17
75	78	Salamander Ck, pit	G	0.5	RC	Sil fest sc w/ bt, muscovite	<5	0.3	60	7	82	17	22	8
75	79	Salamander Ck, pit	G	0.2	RC	Sil fest sc w/ bt, muscovite, po	<5	0.2	66	7	129	5	39	11
75	80	Salamander Ck, pit	G	0.7	RC	Fest contact zone w/ garnet, bt, muscovite	<5	<0.1	36	7	29	2	20	8
75	243	Salamander Ck, pit	S	1	TP	Garnetiferous mica sc	<5	0.3	61	9	62	4	14	4
75	244	Salamander Ck, pit	Rep	14	TP	Granite	<5	<0.1	14	7	104	2	13	5
75	245	Salamander Ck, pit	Rep	0.4	RC	Qz vn in mica sc	<5	0.2	99	6	74	<1	60	17
76	81	Salamander Ck, E of	G	0.6	RC	Garnet sc w/ qz lens & sulf	6	<0.1	39	3	73	1	56	12
76	82	Salamander Ck, E of	G	0.8	RC	Fest gossany sil bt sc	<5	<0.1	47	5	56	1	38	8
77	74	Rd 6265 borrow pit	G	0.4	RC	Qz vn w/ muscovite	<5	<0.1	27	5	39	1	49	5
77	75	Rd 6265 borrow pit	G	0.5	RC	At w/ bands of qz & po	7	0.3	72	7	119	3	116	14
77	242	Rd 6265 borrow pit	G		TP	Qz vn w/ po in mica sc	<5	0.2	52	9	56	<1	50	7
78	83	Rd 50050 borrow pit	G		RC	Fest metaseds w/ dissem po	<5	0.3	62	10	50	2	60	13
78	246	Rd 5050 borrow pit	Rep	0.5	RC	Alt volc w/ fg dissem po	<5	<0.1	71	11	43	2	32	11
79	73	Arron Ck	SS				<5	0.2	40	10	99	2	22	14
79	241	Bear Ck	RC		FL	Qz peg cobbles in stream	<5	<0.1	14	20	41	1	5	<1
80	2645	N Bradfield River Skarn	Rep	8	OC	Mag & hematite band	2600	11.6	1130	6	150	3	4	18
80	2646	N Bradfield River Skarn	C	0.8	OC	Fest qz lens w/ mag	1360	3.4	2200	27	95	3	8	17
81	70	N Bradfield River	SS			Sand w/ mag @ tidal zone	<5	<0.1	13	9	65	<1	3	9
81	71	N Bradfield River	SS			Sand w/ mag @ tidal zone	<5	<0.1	19	6	37	<1	5	7
81	238	Brafield Canal, head of	SS			Black sands	10	<0.1	10	7	90	<1	2	14
81	239	Bradfield Canal, head of	SS			Black sands	<5	<0.1	17	6	32	<1	4	7
82	68	Bradfield Canal, head of	SS			Taken in mudflat @ tidal zone	<5	<0.1	15	6	38	<1	4	7
28	69	Bradfield Canal, head of	SS			Sand w/ mag @ tidal zone	<5	<0.1	17	7	33	<1	4	6
82	236	Brafield Canal, head of	SS			Mud from tidal flat	<5	<0.1	16	5	35	<1	5	7
82	237	Brafield Canal, head of	SS			Mud from tidal flat	<5	<0.1	11	7	52	<1	3	7
83	66	Bradfield Canal, head of	SS				<5	<0.1	19	9	74	1	10	15
83	67	Bradfield Canal, head of	SS			Taken in mudflat @ tidal zone	<5	0.1	25	8	74	2	10	12
84	234	Bradfield Canal, head of	SS			Mud from tidal flat	<5	0.1	24	6	69	<1	8	10
84	235	Brafield Canal, head of	SS			Mud from tidal flat	<5	0.1	25	9	70	1	9	11
85	72	Duck Point, W of	C	0.25	OC	Fest qz vn w/ bt & po	<5	<0.1	33	9	18	<1	4	<1
85	240	Duck Point prospect	Rep	0.83	OC	Qz vn in metaseds	<5	<0.1	15	9	18	<1	1	<1

Table 1. Analytical results from mines, prospects, occurrences, and reconnaissance samples

Map No.	Sample No.	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Cr ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Na %	Nb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Te ppm	Ti %	V ppm	W ppm	Pt ppb	Pd ppb
73	20	0.69	<5	564		<5	0.62	0.3	171	1.23	3	<0.01	0.19	33	0.24	133	0.11	<1	<5	<5	<20	16	<10	<0.01	4	<20		
73	21	3.21	132	121		<5	10	0.4	100	2.63	6	<0.01	1.79	9	0.14	613	0.95	5	<5	<5	<20	66	<10	<0.01	2	<20		
73	22	0.76	<5	58		<5	0.86	<0.2	136	1.27	4	<0.01	0.26	37	0.21	207	0.14	<1	<5	<5	<20	13	<10	<0.01	5	<20		
73	23	6.34	<5	72		<5	5.13	<0.2	107	8.15	8	0.019	0.06	16	3.2	1108	0.52	6	<5	21	<20	209	<10	0.07	180	<20		
73	208	0.59	<5	264		<5	0.11	<0.2	157	1.09	2	<0.01	0.16	29	0.22	112	0.09	<1	<5	<5	<20	9	<10	<0.01	3	<20		
73	209	0.79	<5	422		<5	0.08	<0.2	175	1.3	3	<0.01	0.19	32	0.36	94	0.11	1	<5	<5	<20	11	<10	<0.01	4	<20		
74	94	2.5	<5	229		<5	0.33	<0.2	101	4.65	5	0.027	0.58	9	1.45	2958	0.09	3	<5	7	<20	29	<10	0.14	86	<20		
74	260	0.85	<5	211		<5	0.25	<0.2	73	2.27	<2	<0.01	0.61	8	0.6	515	0.08	3	<5	<5	<20	17	<10	0.16	41	<20		
75	76	2.57	<5	44		<5	2.38	<0.2	136	4.15	<2	<0.01	0.19	6	0.55	345	0.2	4	<5	<5	<20	104	<10	0.12	53	<20		
75	77	1.68	<5	58		<5	0.13	0.2	105	4.73	<2	0.015	1.01	5	1.01	246	0.06	2	<5	8	<20	7	<10	0.17	92	<20		
75	78	1.84	<5	118		<5	0.43	0.3	123	4.15	<2	0.014	0.65	6	1.25	347	0.06	3	<5	11	<20	10	<10	0.14	111	<20		
75	79	2.57	<5	88		<5	0.59	<0.2	133	5.56	<2	<0.01	1.49	5	1.57	525	0.12	4	<5	18	<20	23	<10	0.27	211	<20		
75	80	1.91	<5	218		<5	0.34	<0.2	138	3.21	<2	<0.01	0.9	6	0.85	168	0.08	2	<5	<5	<20	27	<10	0.16	80	<20		
75	243	3.63	<5	218		<5	0.05	<0.2	66	6.35	<2	<0.01	2.25	10	2.24	220	0.07	4	<5	12	<20	5	<10	0.31	190	<20		
75	244	2.69	<5	601		<5	0.64	<0.2	87	4.6	<2	<0.01	1.43	8	1.58	673	0.11	4	<5	8	<20	30	<10	0.25	96	<20		
76	245	1.58	<5	99		<5	0.4	<0.2	76	3.79	<2	<0.01	0.68	6	0.97	277	0.1	3	<5	6	<20	16	<10	0.13	75	<20		
76	81	2.74	<5	254		<5	1.64	<0.2	177	2.78	<2	<0.01	0.59	2	0.96	240	0.12	5	<5	6	<20	69	<10	0.12	63	<20		
76	82	1.78	<5	135		<5	0.89	<0.2	179	3.48	<2	<0.01	0.36	2	0.64	268	0.1	<1	<5	<5	<20	97	<10	0.14	52	<20		
77	74	1.22	<5	132		<5	0.83	0.3	222	1.28	<2	<0.01	0.27	2	0.6	147	0.09	2	<5	<5	<20	55	<10	0.06	36	<20		
77	76	2.74	<5	215		<5	0.19	0.3	259	4.44	<2	<0.01	1.55	5	2.09	243	0.07	5	<5	12	<20	8	<10	0.19	114	<20		
77	242	1.97	<5	238		<5	1.62	0.2	114	2.14	3	0.01	0.63	3	0.96	132	0.09	3	<5	7	<20	60	<10	0.08	63	<20		
78	83	6.41	<5	78		<5	3.93	0.2	111	4.64	9	<0.01	0.49	3	0.84	630	0.4	10	<5	8	<20	312	<10	0.05	59	<20		
78	246	3.59	<5	94		<5	8.85	0.3	36	3.49	<2	<0.01	0.33	2	0.7	1197	0.2	7	<5	<5	<20	264	<10	0.04	43	<20		
78	73	1.74	12	218		<5	0.87	0.3	39	3.05	4	0.02	0.33	9	1.18	426	0.03	3	<5	<5	<20	28	<10	0.14	81	<20		
79	241	0.42	<5	59		<5	0.5	<0.2	87	0.55	<2	<0.01	0.18	2	0.08	102	0.06	3	<5	<5	<20	9	<10	0.01	7	<20		
80	2645	0.63	2	10	<.5	<2	0.51	1.5	21	>15.00	20	0.05	0.01	<10	0.02	670	<.01		<2	<1		9		0.01	36	<10		
80	2646	1.29	<2	10	<.5	<2	4.83	1.5	226	5.37	<10	0.02	<.01	<10	0.04	865	<.01		<2	1		7		0.02	40	<10		
81	70	0.35	<5	39		<5	0.49	0.2	14	20.34	7	0.022	0.06	17	0.17	483	0.02	11	<5	<5	<20	21	<10	0.07	307	<20		
81	71	0.82	<5	143		<5	0.66	<0.2	7	2.4	3	0.013	0.19	10	0.47	269	0.04	2	<5	<5	<20	73	<10	0.1	53	<20		
81	238	0.18	<5	14		<5	0.29	0.5	23	54.69	13	0.011	0.02	9	0.05	835	0.01	21	<5	<5	<20	9	<10	0.06	635	<20		
81	239	0.65	<5	121		<5	0.57	<0.2	7	2.78	3	0.012	0.15	9	0.39	237	0.04	2	<5	<5	<20	69	<10	0.08	62	<20		
82	68	0.74	<5	113		<5	0.5	<0.2	6	2.93	3	0.015	0.18	9	0.44	253	0.05	3	<5	<5	<20	63	<10	0.09	63	<20		
28	69	0.69	<5	98		<5	0.47	<0.2	6	2.15	2	0.01	0.16	8	0.39	221	0.06	2	<5	<5	<20	58	<10	0.08	47	<20		
82	236	0.78	<5	123		<5	0.53	<0.2	6	1.98	2	<0.01	0.18	8	0.46	244	0.05	2	<5	<5	<20	65	<10	0.09	43	<20		
82	237	0.39	<5	46		<5	0.39	<0.2	12	10.77	5	0.011	0.09	10	0.21	345	0.03	8	<5	<5	<20	26	<10	0.06	219	<20		
83	66	1.56	<5	161		<5	0.61	<0.2	17	3.65	5	0.041	0.32	8	0.83	777	0.15	4	<5	<5	<20	58	<10	0.17	76	<20		
83	67	1.57	<5	201		<5	0.79	<0.2	13	3.18	5	0.032	0.43	11	0.96	388	0.22	5	<5	<5	<20	87	<10	0.18	69	<20		
84	234	1.42	<5	181		<5	0.8	<0.2	11	2.69	4	0.018	0.4	12	0.88	363	0.2	4	<5	<5	<20	70	<10	0.16	60	<20		
84	235	1.46	<5	185		<5	0.78	<0.2	11	2.58	4	0.013	0.41	12	0.88	369	0.21	4	<5	<5	<20	71	<10	0.17	58	<20		
85	72	0.38	<5	58		<5	0.1	<0.2	87	0.6	<2	<0.01	0.15	2	0.1	47	0.09	<1	<5	<5	<20	13	<10	0.03	4	<20		
85	240	0.24	<5	36		<5	0.05	<0.2	39	0.57	<2	<0.01	0.09	<1	0.08	51	0.04	2	<5	<5	<20	8	<10	0.02	4	<20		

No.	Location
1	Pinta Point
2	Pinta Point
3	Keku Islet
4	Kuiu Lead Zinc
5	Hungerford, at beach
6	Security Cove, W of
7	Kuiu I., 3305 ft peak
8	Northern Copper
9	Salt Chuck area
10	Towers Ck, @ falls
10	Towers Ck
11	Towers Ck
12	Salt Chuck area
13	Portage Ck
14	Portage Ck
15	Coonrod Zinc
16	Salt Chuck
17	North Arm
18	Towers Arm
19	Towers Arm
20	Taylor Ck
20	Taylor Ck, @ hill
21	Taylor Ck, @ pit
21	Taylor Ck
22	North Arm
23	Indian Point
24	Castle River, N of
25	Castle River area
26	Castle I. Barite
27	Castle I. Barite, E side
27	Castle I. Barite
28	Castle I. Barite
28	Castle I. Barite, SW end
29	Totem Bay, N of
30	Duncan Canal area
31	Lost Lake
32	Harvey Lake trail
32	Helen S
32	Helen S, shaft
33	Harvey Ck
33	Harvey Lake Trail
34	Harvey Lake
35	Maid of Mexico, #3 adit
35	Maid of Mexico
36	Charlie's Creek
37	Harvey Lake, E of
38	Mad Dog 2
39	Hattie
40	Hattie
41	Fortune
42	E Porterfield Ck
42	Porterfield Ck, @ head
43	N Silver
44	Groundhog Basin, N of
45	Groundhog Basin, N of
46	Groundhog Basin, #1 adit
47	Groundhog Basin
48	Groundhog Basin
48	Groundhog Basin, #4 adit
48	Groundhog Basin, #3 adit
48	Groundhog Basin, #2 adit
49	N Silver
50	N Silver
50	Whistle Pig adit
50	Whistle Pig
51	Groundhog Basin Cirque
52	Cu Zone
52	Camp 6 area
53	Marsha Peak
54	E Marsha Peak
55	Lower Nelson Nunatak
56	Huff Prospect area
57	Huff Prospect
57	Huff Prospect area
58	Huff Prospect
58	Huff Prospect area
59	Nelson Glacier, E Skarn
59	Nelson Glacier, @ toe
59	Huff Prospect
60	Huff Prospect area
61	Huff Prospect area
62	Huff Prospect area
63	W Ridge, Nelson Glacier
63	Nelson Glacier, SW side
64	Glacier Basin
65	Lake Prospect, #2 adit
66	Berg Basin
67	Elephant Nose, E of
68	Elephant Nose
68	Elephant Nose, E of
69	Exchange
69	Wedge Point
69	Exchange, adit
70	Sunrise 1&2
71	Frenchie, adit
72	Hydro Pit
73	Zarembo I. Fluorite
74	Zarembo I. Fluorite
74	Obridian Prospect
75	Salamander Ck, pit
76	Salamander Ck, pit
76	Salamander Ck, E of
77	Rd 6265 borrow pit
78	Rd 5050 borrow pit
79	Bear Ck
79	Arron Ck
80	N Bradfield River Skarn
81	Bradfield Canal, head of
81	N Bradfield River
82	Bradfield Canal, head of
83	Bradfield Canal, head of
84	Bradfield Canal, head of
85	Duck Point, W of
85	Duck Point prospect

Figure 3. - 1996-97 sample location map of the Stikine study area.